Engineering Drawings for the Doris North Camp Area Diversion Berm, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS	
DN-WDB-00	HB+D-CIV-CIV-OND-0165	Engineering Drawings for the Doris North Camp Area Diversion Berm	1	Jan. 13, 2012	Issued for Construction	Rev 0, Dec. 9, 2011	Rev A, Dec. 5, 2011
DN-WDB-01	HB+D-CIV-CIV-OND-0166	Diversion Berm General Arrangement	1	Jan. 13, 2012	Updated Topography	Rev 0, Dec. 9, 2011	Rev A, Dec. 5, 2011
DN-WDB-02	HB+D-CIV-CIV-OND-0167	Diversion Berm Keytrench and ROQ Stakeout Tables	1	Jan. 13, 2012	Updated Topography	Rev 0, Dec. 9, 2011	Rev A, Dec. 5, 2011
DN-WDB-03	HB+D-CIV-CIV-OND-0168	Diversion Berm Sections and Details	1	Jan. 13, 2012	Updated Topography	Rev 0, Dec. 9, 2011	Rev A, Dec. 5, 2011
DN-WDB-04	HB+D-CIV-CIV-OND-0169	Diversion Berm Sections and Details Continued	0	Jan. 13, 2012	Issued for Construction		

HOPE BAY MINING LTD.

srk consulting

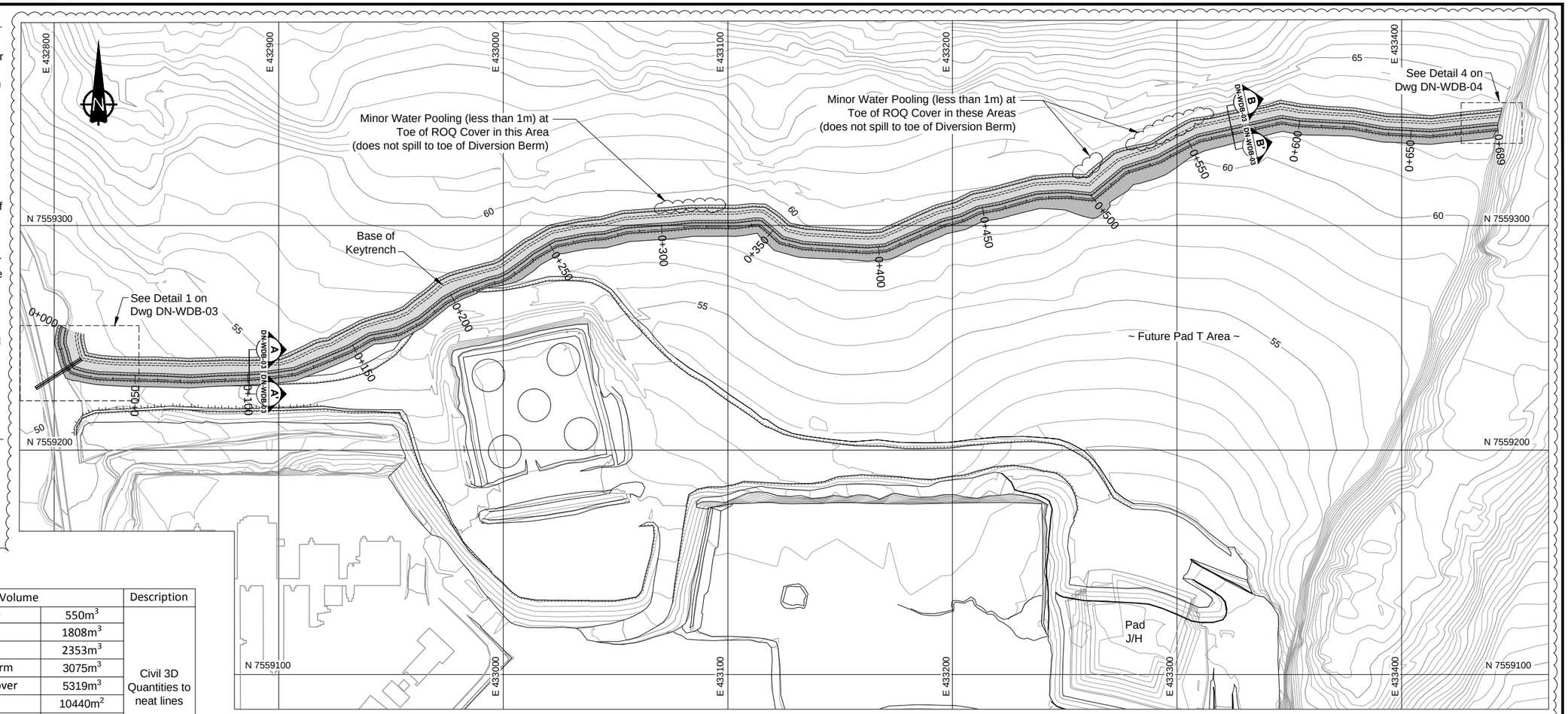
PROJECT NO: 1CH008.058
ISSUED FOR CONSTRUCTION
Revision 1
January 13, 2011
DN-WDB-00 / HB+D-CIV-CIV-OND-0165

NOTES

1. The designs are based on the as-built contour information shown on these drawings. It is however the Contractor's responsibility to confirm that the contours are a fair reflection of the ground levels in the vicinity of the works, and to advise the Construction Manager and Engineer of any differences.
2. The co-ordinate system is UTM NAD 83, Zone 13.
3. All dimensions are in metric units, unless specifically mentioned. Section dimensions are presented in meters.
4. All drawings are scaled appropriately for D-Size construction drawings. Scales may not be correct if these drawings are reproduced and presented in any other size format.
5. The Engineer will provide the Construction Manager and Contractor with digital design files for setting out the works. The Engineer will instruct the Contractor to survey random spot checks to confirm whether the works have been set out correct.
6. Construction shall be in accordance with the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay project, Nunavut, Canada, Revision G -Issue for Construction.
7. Notes in this drawing apply to all other active drawings.

PLAN VIEW LEGEND

- Diversion Berm Area (3/4" Material)
- ROQ Cover Area



DIVERSION BERM PLAN VIEW

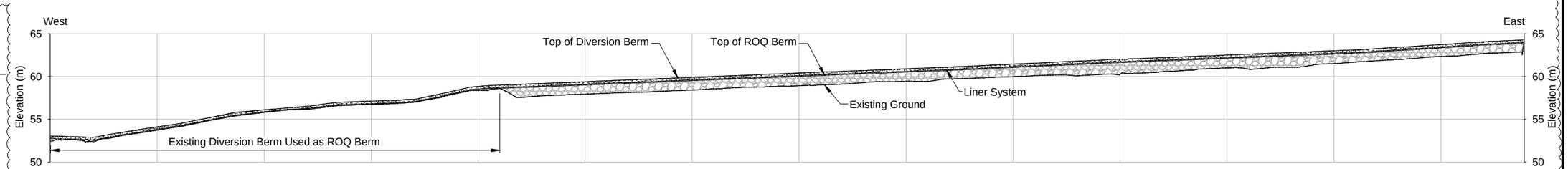
0 10 20 30 40 50
Scale in Metres

MATERIALS AND QUANTITIES:

	Item	Area/Volume		Description
1.	3/4" Crush Material	Liner Subgrade	550m^3	Civil 3D Quantities to neat lines
		Overliner	1808m^3	
		Total	2353m^3	
2.	ROQ	3m wide ROQ Berm	3075m^3	
		ROQ Keytrench Cover	5319m^3	
3.	Geotextile	2 Layers	10440m^2	
4.	Geomembrane Liner		5494m^2	
5.	Bentonite Chips		100m^3	
6.	Keytrench Excavation		2849m^3	

SECTION LEGEND

- 3/4" Crush Material
- Run of Quarry Material
- Liner System
- Textured HDPE 60mil
- 12oz. Non-woven Geotextile
- Existing ground surface



DIVERSION BERM PROFILE

0 10 20 30 40 50
Horizontal Scale in Metres
Vertical Exaggeration 4X

1

REFERENCES

1. Engineering Drawings for the Doris North Camp Area, Doris North Project, Nunavut, Canada. Issued for Construction. Revision 7. Project No. 1CH008.027. April 7, 2011.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
1	UPDATED TOPOGRAPHY	LW	EMR	13JAN12
0	ISSUED FOR CONSTRUCTION	LW	EMR	9DEC11
A	ISSUED FOR REVIEW	LW	EMR	5DEC11

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: NV	REVIEWED: EMR
CHECKED: LW	APPROVED: EMR	DATE: Jan. 13, 2011

FILE NAME: 1CH008.058.217-PLN-DN-WDB-01_02_03 Rev 1.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 SRK DWG NO.: DN-WDB-01

Doris North Project

DRAWING TITLE: Diversion Berm General Arrangement

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0166 | SHEET 2 of 5 | REVISION NO. 1

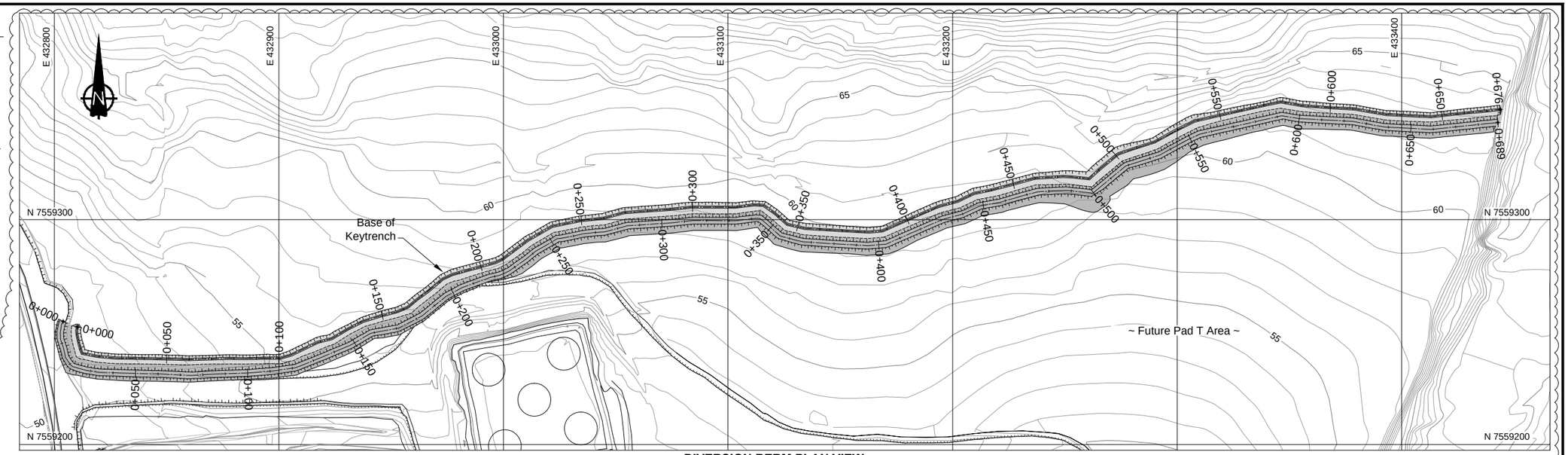
C:\01_SITES\Hope Bay\Doris Camp Water Diversion Berm\1CH008.058.217-PLN-DN-WDB-01_02_03 Rev 1.dwg

LEGEND

- ROQ Berm Area
- Keytrench Excavation

NOTES

1. The chainage stakeout points represent horizontal (directional) and vertical (grade) inflection points.



DIVERSION BERM PLAN VIEW

0 10 20 30 40 50
Scale in Metres

Keytrench Centerline Stakeout Table			
Chainage	Northing	Easting	Elevation
0+000.0	7559252.28	432810.28	50.22
0+001.7	7559250.66	432809.92	50.18
0+003.7	7559248.63	432810.13	50.13
0+010.5	7559241.99	432811.76	49.97
0+012.2	7559240.49	432812.37	49.93
0+018.9	7559239.20	432818.94	50.17
0+027.0	7559238.46	432827.04	50.46
0+054.0	7559237.98	432854.04	51.71
0+059.5	7559237.76	432859.58	52.05
0+077.7	7559238.29	432877.75	53.14
0+084.0	7559238.19	432884.05	53.41
0+094.4	7559238.41	432894.39	53.86
0+100.6	7559238.36	432900.64	53.92
0+105.6	7559239.80	432905.46	53.97
0+118.7	7559245.44	432917.23	54.10
0+125.2	7559247.08	432923.50	54.17
0+133.6	7559251.32	432930.79	54.25
0+140.9	7559254.68	432937.28	54.32
0+149.3	7559257.15	432945.32	54.41
0+157.0	7559259.03	432952.77	54.48
0+159.0	7559259.79	432954.62	54.55
0+161.9	7559260.94	432957.32	54.64
0+182.1	7559273.61	432972.96	56.02
0+186.7	7559275.55	432977.21	56.18
0+206.8	7559280.94	432996.51	56.72
0+210.1	7559282.37	432999.56	56.76
0+224.2	7559290.80	433010.85	56.89
0+236.7	7559297.02	433021.63	57.01
0+249.5	7559299.52	433034.24	57.13
0+259.9	7559300.59	433044.56	57.23
0+269.4	7559303.10	433053.71	57.33
0+290.0	7559304.55	433074.22	57.53
0+299.6	7559305.54	433083.83	57.62
0+319.0	7559305.51	433103.21	57.82
0+327.5	7559306.58	433111.62	57.90
0+331.7	7559306.34	433115.85	57.94
0+338.1	7559302.62	433121.02	58.00
0+345.2	7559297.87	433126.39	58.08
0+353.3	7559296.09	433134.24	58.16
0+378.3	7559294.60	433159.16	58.41
0+382.0	7559294.48	433162.87	58.45
0+387.9	7559294.98	433168.77	58.51
0+415.9	7559306.07	433194.46	58.79
0+424.0	7559308.15	433202.34	58.88
0+432.0	7559311.65	433209.54	58.96
0+440.1	7559313.22	433217.40	59.04
0+460.0	7559318.45	433236.67	59.23
0+472.5	7559319.17	433249.11	59.36
0+476.1	7559319.03	433252.75	59.39
0+484.2	7559318.20	433260.78	59.48
0+490.7	7559322.54	433265.67	59.55
0+501.2	7559329.21	433273.77	59.65
0+518.2	7559334.51	433289.94	59.82
0+538.5	7559343.90	433307.89	60.02
0+577.7	7559352.38	433346.12	60.41
0+586.9	7559350.72	433355.17	60.68
0+593.0	7559350.26	433361.25	60.82
0+610.5	7559349.22	433378.73	61.13
0+625.0	7559346.75	433393.04	61.34
0+645.0	7559345.78	433413.06	61.65
0+668.7	7559348.24	433436.58	61.96
0+676.0	7559348.95	433443.82	62.03

ROQ Berm Centerline Stakeout Table			
Chainage	Northing	Easting	Elevation
0+210.2	7559271.53	432986.52	58.59
0+218.1	7559274.22	432993.96	58.67
0+222.7	7559275.25	432998.43	58.71
0+227.2	7559277.11	433002.49	58.76
0+241.8	7559285.82	433014.23	58.90
0+252.9	7559291.40	433023.80	59.01
0+264.4	7559293.59	433035.18	59.13
0+269.7	7559294.24	433040.39	59.19
0+274.5	7559294.56	433045.18	59.24
0+284.8	7559297.23	433055.08	59.34
0+304.3	7559298.53	433074.56	59.53
0+314.1	7559299.54	433084.34	59.63
0+333.3	7559299.50	433103.54	59.83
0+342.1	7559300.58	433112.24	59.91
0+344.1	7559300.51	433114.26	59.94
0+356.1	7559292.61	433123.34	60.06
0+366.3	7559290.15	433133.23	60.16
0+395.3	7559288.40	433162.16	60.45
0+403.6	7559289.08	433170.41	60.52
0+431.3	7559300.16	433195.80	60.82
0+440.1	7559302.39	433204.36	60.92
0+448.5	7559306.01	433211.93	61.02
0+457.9	7559307.69	433221.18	61.13
0+475.3	7559312.37	433237.89	61.33
0+488.1	7559313.00	433250.70	61.48
0+500.0	7559311.76	433262.53	61.61
0+518.9	7559323.86	433277.11	61.79
0+535.0	7559328.73	433292.40	61.95
0+549.1	7559335.50	433304.79	62.09
0+554.8	7559337.99	433309.93	62.15
0+592.3	7559346.16	433346.55	62.53
0+600.3	7559344.90	433354.44	62.61
0+613.3	7559344.24	433367.42	62.74
0+624.0	7559343.69	433378.09	62.91
0+638.5	7559341.18	433392.36	63.14
0+659.2	7559340.10	433413.00	63.48
0+672.2	7559341.43	433425.94	63.69
0+689.2	7559343.16	433442.83	64.10

1

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
1	UPDATED TOPOGRAPHY	LW	EMR	13JAN12
0	ISSUED FOR CONSTRUCTION	LW	EMR	9DEC11
A	ISSUED FOR REVIEW	LW	EMR	5DEC11

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW | DRAWN: NV | REVIEWED: EMR
CHECKED: LW | APPROVED: EMR | DATE: Jan. 13, 2011
FILE NAME: 1CH008.058.217-PLN-DN-WDB-01_02_03 Rev 1.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

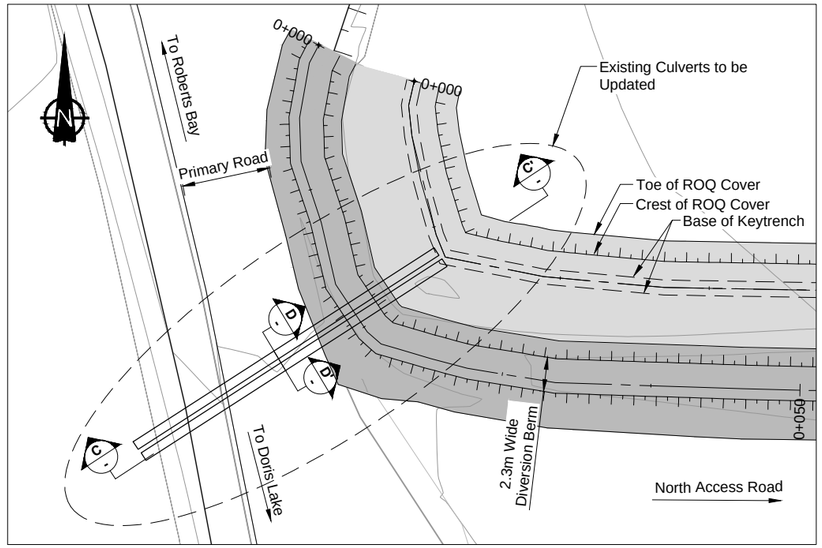
SRK JOB NO.: 1CH008.058 | SRK DWG NO.: DN-WDB-02

Doris North Project

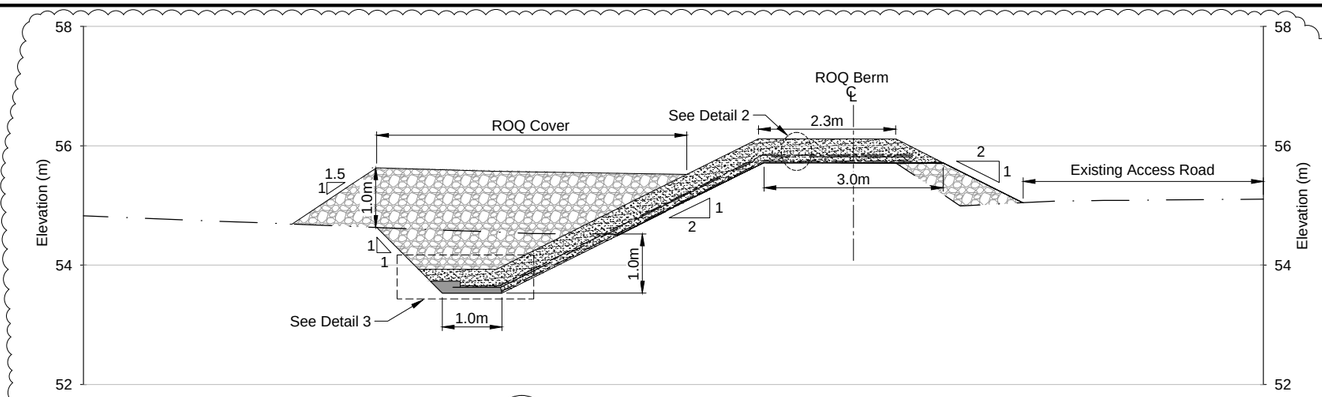
DRAWING TITLE:
Diversion Berm
Keytrench and ROQ Berm Stakeout Tables

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0167 | SHEET 3 of 5 | REVISION NO. 1

C:\01_SITES\Hope Bay\Doris Camp Water Diversion Berm\1CH008.058.217-PLN-DN-WDB-01_02_03 Rev 1.dwg



1 CULVERT INLET DETAIL
DN-WDB-01
0 2 4 6 8 10
Scale in Metres



A CROSS SECTION A - A'
DN-WDB-01
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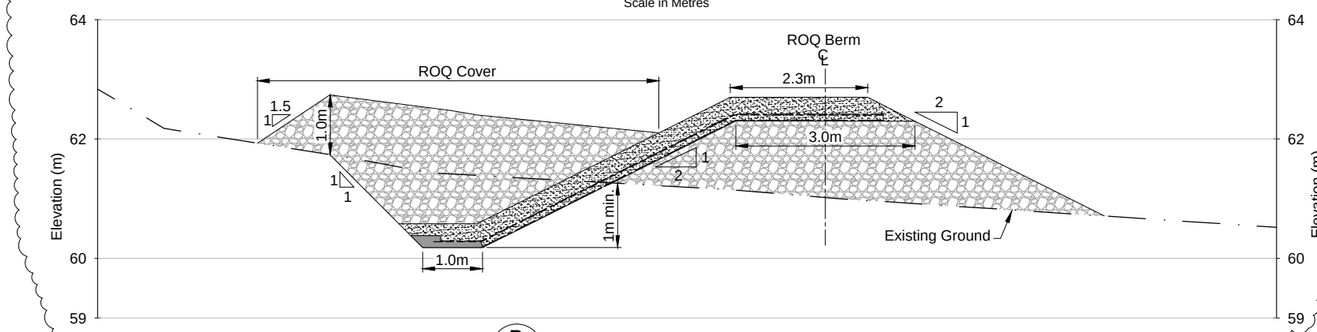
Scale in Metres



B CROSS SECTION B - B'
DN-WDB-01
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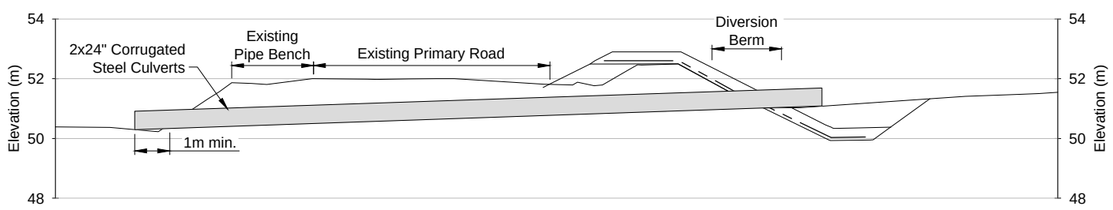
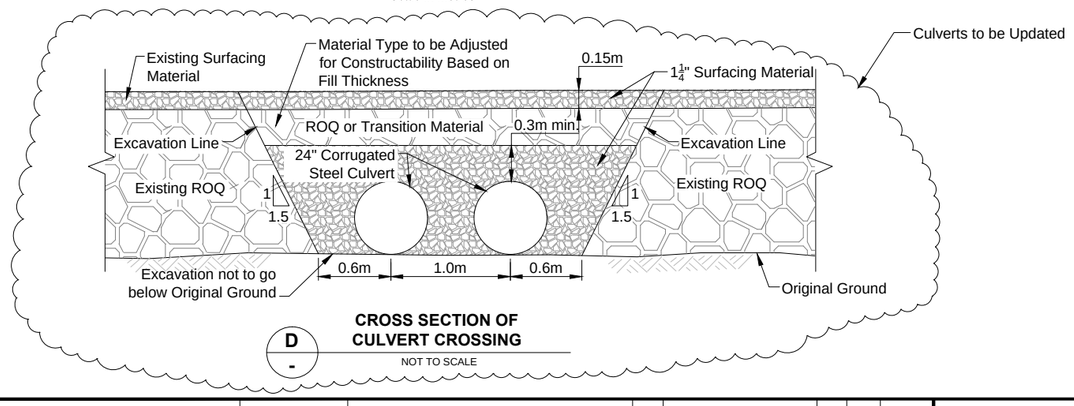
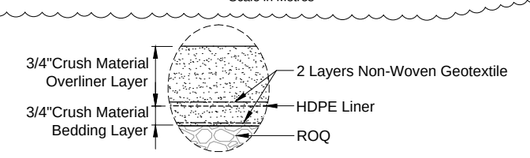
Scale in Metres



C CULVERT CROSS SECTION
0 1 2 3 4 5
Scale in Metres



D CROSS SECTION OF CULVERT CROSSING
NOT TO SCALE



2 LINER SYSTEM DETAIL
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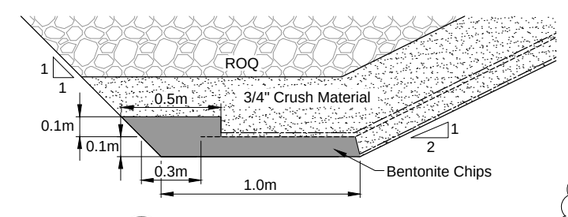
Scale in Metres



3 BENTONITE CHIP DETAIL
0 0.2 0.4 0.6 0.8 1
Scale in Metres

LEGEND

- Bentonite Chips
- 3/4" Crush Material
- Run of Quarry Material
- Liner System
- Textured HDPE 60mil
- 12oz. Non-woven Geotextile
- Existing ground surface

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
1	UPDATED TOPOGRAPHY	LW	EMR	13JAN12
0	ISSUED FOR CONSTRUCTION	LW	EMR	9DEC11
A	ISSUED FOR REVIEW	LW	EMR	5DEC11

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: NV	REVIEWED: EMR
CHECKED: LW	APPROVED: EMR	DATE: Jan. 13, 2011

FILE NAME: 1CH008.058.217-PLN-DN-WDB-01_02_03 Rev 1.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 SRK DWG NO.: DN-WDB-03

Doris North Project

DRAWING TITLE: Diversion Berm Sections and Details

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0168 | SHEET 4 of 5 | REVISION NO. 1

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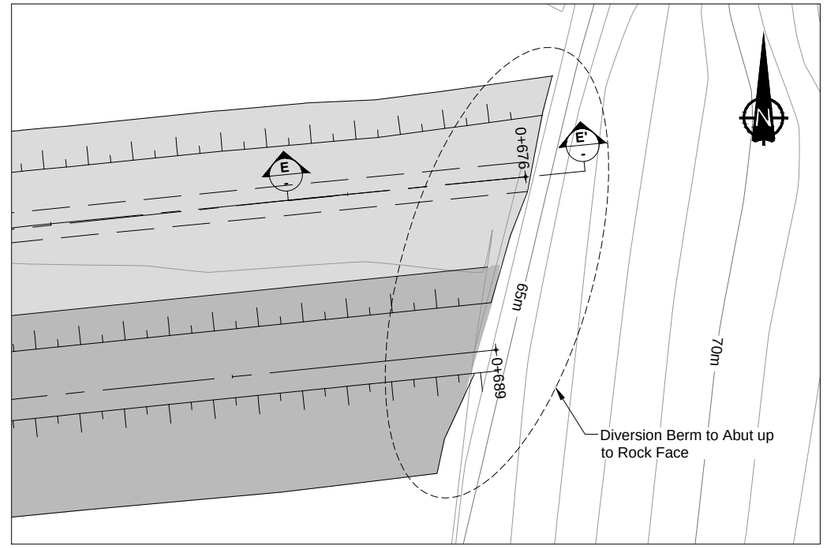
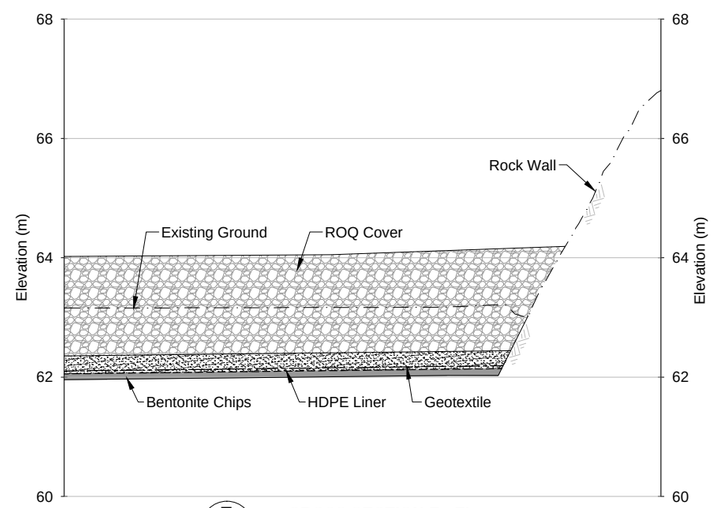


PLAN VIEW LEGEND

- Diversion Berm Area (3/4" Material)
- ROQ Cover Area

4 KEYTRENCH / ROCK WALL TIE-IN DETAIL
DN-WDB-01

0 1 2 3 4 5
Scale in Metres



E - E' CROSS SECTION E - E'

0 0.5 1 1.5 2 2.5
Scale in Metres

SECTION LEGEND

- Bentonite Chips
- 3/4" Crush Material
- Run of Quarry Material
- Liner System
- Textured HDPE 60mil
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DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS			

NO.	DESCRIPTION	CHK'D	APP'D	DATE
0	ISSUED FOR CONSTRUCTION	LW	EMR	13JAN12

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: NV	REVIEWED: EMR
CHECKED: LW	APPROVED: EMR	DATE: Jan. 13, 2011

FILE NAME: 1CH008.058.217-PLN-DN-WDB-01_02_03 Rev 1.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 SRK DWG NO.: DN-WDB-04

Doris North Project

DRAWING TITLE:
Diversion Berm
Sections and Details Continued

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0169
SHEET 5 of 5
REVISION NO. 0

C:\01_SITES\Hope Bay\Doris Camp Water Diversion Berm\1CH008.058.217-PLN-DN-WDB-01_02_03 Rev 1.dwg

Engineering Drawings for the Doris North Camp Area Diversion Berm, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

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DN-WDB-00	HB+D-CIV-CIV-OND-0165	Engineering Drawings for the Doris North Camp Area Diversion Berm	2	Jan. 17, 2012	Issued for Construction	Rev 1, Jan. 13, 2012	Rev 0, Dec. 9, 2011	Rev A, Dec. 5, 2011
DN-WDB-01	HB+D-CIV-CIV-OND-0166	Diversion Berm General Arrangement	2	Jan. 17, 2012	Updated Culverts	Rev 1, Jan. 13, 2012	Rev 0, Dec. 9, 2011	Rev A, Dec. 5, 2011
DN-WDB-02	HB+D-CIV-CIV-OND-0167	Diversion Berm Keytrench and ROQ Stakeout Tables	1	Jan. 13, 2012	Updated Topography	Rev 0, Dec. 9, 2011	Rev A, Dec. 5, 2011	
DN-WDB-03	HB+D-CIV-CIV-OND-0168	Diversion Berm Sections and Details	2	Jan. 17, 2012	Updated Culverts	Rev 1, Jan. 13, 2012	Rev 0, Dec. 9, 2011	Rev A, Dec. 5, 2011
DN-WDB-04	HB+D-CIV-CIV-OND-0169	Diversion Berm Sections and Details Continued	0	Jan. 13, 2012	Issued for Construction			

HOPE BAY MINING LTD.

srk consulting

PROJECT NO: 1CH008.058
ISSUED FOR CONSTRUCTION
Revision 2
January 17, 2011
DN-WDB-00 / HB+D-CIV-CIV-OND-0165

NOTES

1. The designs are based on the as-built contour information shown on these drawings. It is however the Contractor's responsibility to confirm that the contours are a fair reflection of the ground levels in the vicinity of the works, and to advise the Construction Manager and Engineer of any differences.
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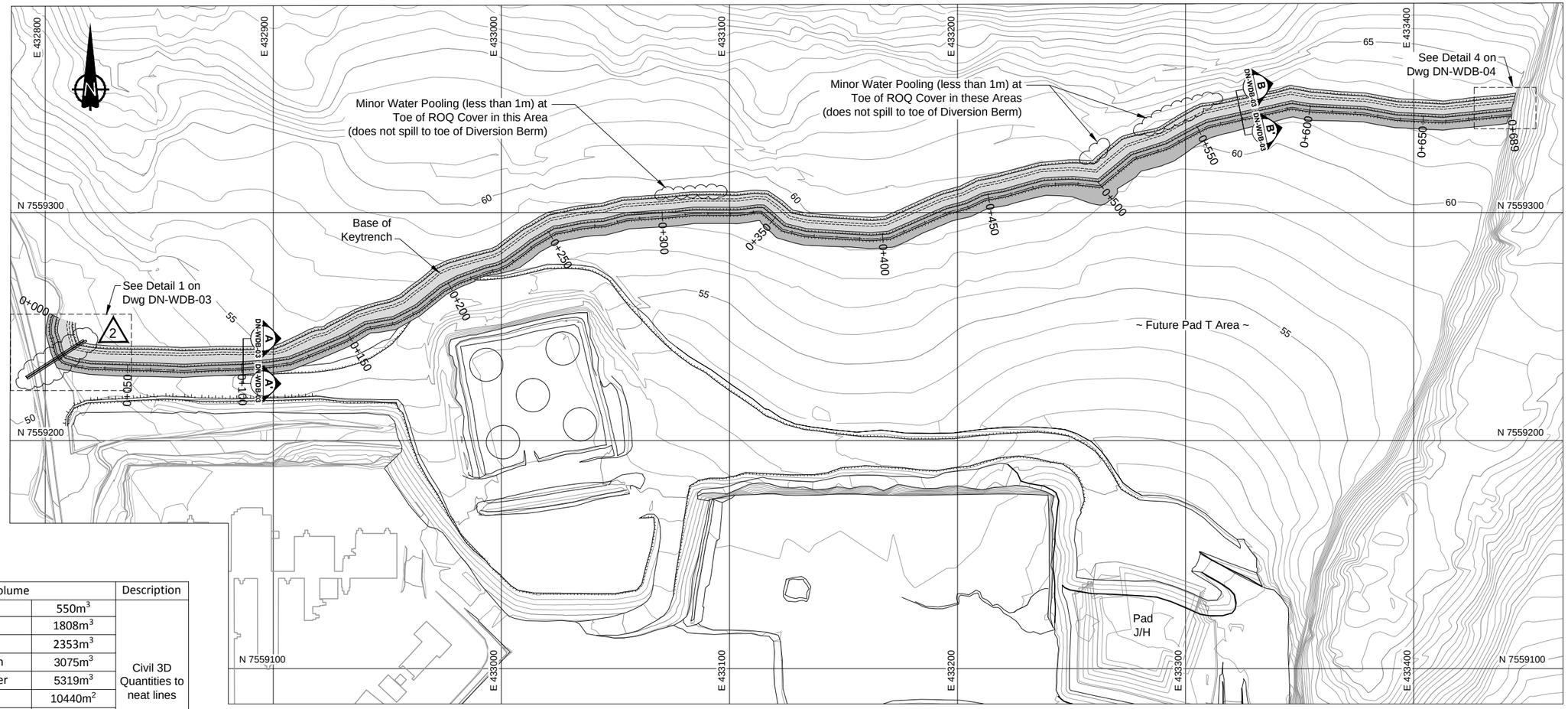
- ROQ Cover Area



DIVERSION BERM PLAN VIEW

0 10 20 30 40 50
Scale in Metres

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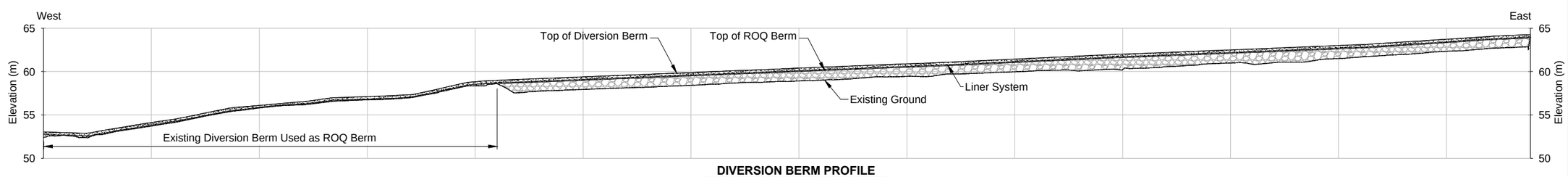
4.	Geomembrane Liner		5494m^2	
5.	Bentonite Chips		100m^3	
6.	Keytrench Excavation		2849m^3	

SECTION LEGEND

- 3/4" Crush Material
- Run of Quarry Material
- Liner System
- Textured HDPE 60mil
- 12oz. Non-woven Geotextile
- Existing ground surface



DIVERSION BERM PROFILE

0 10 20 30 40 50
Horizontal Scale in Metres
Vertical Exaggeration 4X

REFERENCES

1. Engineering Drawings for the Doris North Camp Area, Doris North Project, Nunavut, Canada. Issued for Construction. Revision 7. Project No. 1CH008.027. April 7, 2011.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
2	UPDATED CULVERTS	LW	EMR	17JAN12
1	UPDATED TOPOGRAPHY	LW	EMR	13JAN12
0	ISSUED FOR CONSTRUCTION	LW	EMR	9DEC11
A	ISSUED FOR REVIEW	LW	EMR	5DEC11

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW | DRAWN: NV | REVIEWED: EMR
CHECKED: LW | APPROVED: EMR | DATE: Jan. 17, 2011
FILE NAME: 1CH008.058.217-PLN-DN-WDB-01_02_03 Rev 2.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 | SRK DWG NO.: DN-WDB-01

Doris North Project

DRAWING TITLE: Diversion Berm General Arrangement

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0166 | SHEET 2 of 5 | REVISION NO. 2

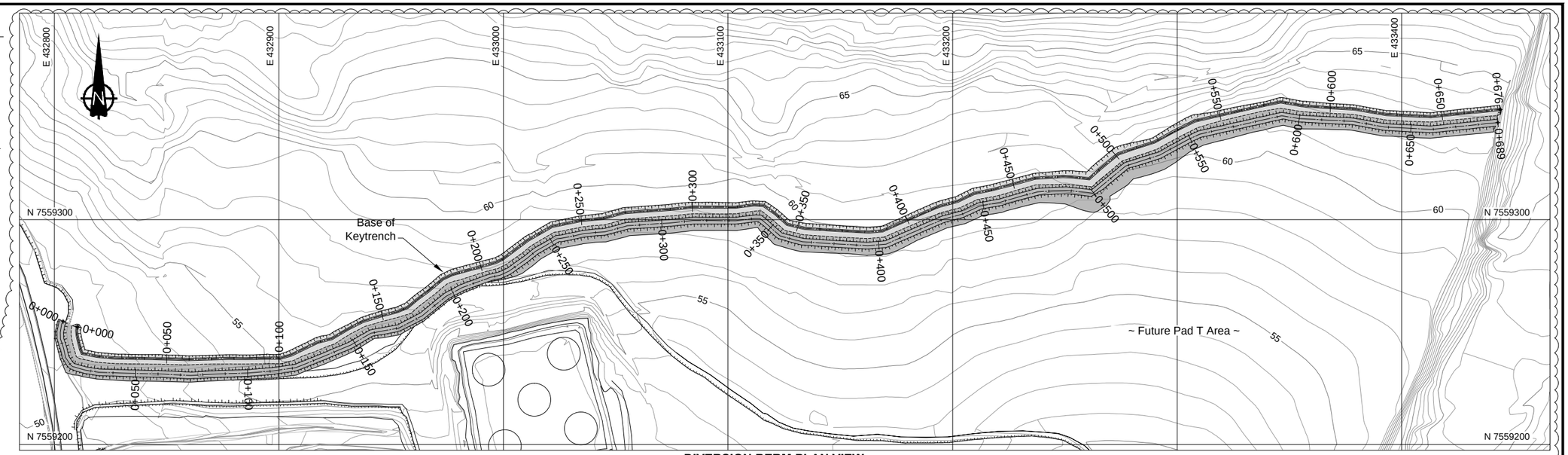
C:\01_SITES\Hope Bay\Doris Camp Water Diversion Berm\1CH008.058.217-PLN-DN-WDB-01_02_03 Rev 2.dwg

LEGEND

- ROQ Berm Area
- Keytrench Excavation

NOTES

1. The chainage stakeout points represent horizontal (directional) and vertical (grade) inflection points.



DIVERSION BERM PLAN VIEW

0 10 20 30 40 50
Scale in Metres

Keytrench Centerline Stakeout Table			
Chainage	Northing	Easting	Elevation
0+000.0	7559252.28	432810.28	50.22
0+001.7	7559250.66	432809.92	50.18
0+003.7	7559248.63	432810.13	50.13
0+010.5	7559241.99	432811.76	49.97
0+012.2	7559240.49	432812.37	49.93
0+018.9	7559239.20	432818.94	50.17
0+027.0	7559238.46	432827.04	50.46
0+054.0	7559237.98	432854.04	51.71
0+059.5	7559237.76	432859.58	52.05
0+077.7	7559238.29	432877.75	53.14
0+084.0	7559238.19	432884.05	53.41
0+094.4	7559238.41	432894.39	53.86
0+100.6	7559238.36	432900.64	53.92
0+105.6	7559239.80	432905.46	53.97
0+118.7	7559245.44	432917.23	54.10
0+125.2	7559247.08	432923.50	54.17
0+133.6	7559251.32	432930.79	54.25
0+140.9	7559254.68	432937.28	54.32
0+149.3	7559257.15	432945.32	54.41
0+157.0	7559259.03	432952.77	54.48
0+159.0	7559259.79	432954.62	54.55
0+161.9	7559260.94	432957.32	54.64
0+182.1	7559273.61	432972.96	56.02
0+186.7	7559275.55	432977.21	56.18
0+206.8	7559280.94	432996.51	56.72
0+210.1	7559282.37	432999.56	56.76
0+224.2	7559290.80	433010.85	56.89
0+236.7	7559297.02	433021.63	57.01
0+249.5	7559299.52	433034.24	57.13
0+259.9	7559300.59	433044.56	57.23
0+269.4	7559303.10	433053.71	57.33
0+290.0	7559304.55	433074.22	57.53
0+299.6	7559305.54	433083.83	57.62
0+319.0	7559305.51	433103.21	57.82
0+327.5	7559306.58	433111.62	57.90
0+331.7	7559306.34	433115.85	57.94
0+338.1	7559302.62	433121.02	58.00
0+345.2	7559297.87	433126.39	58.08
0+353.3	7559296.09	433134.24	58.16
0+378.3	7559294.60	433159.16	58.41
0+382.0	7559294.48	433162.87	58.45
0+387.9	7559294.98	433168.77	58.51
0+415.9	7559306.07	433194.46	58.79
0+424.0	7559308.15	433202.34	58.88
0+432.0	7559311.65	433209.54	58.96
0+440.1	7559313.22	433217.40	59.04
0+460.0	7559318.45	433236.67	59.23
0+472.5	7559319.17	433249.11	59.36
0+476.1	7559319.03	433252.75	59.39
0+484.2	7559318.20	433260.78	59.48
0+490.7	7559322.54	433265.67	59.55
0+501.2	7559329.21	433273.77	59.65
0+518.2	7559334.51	433289.94	59.82
0+538.5	7559343.90	433307.89	60.02
0+577.7	7559352.38	433346.12	60.41
0+586.9	7559350.72	433355.17	60.68
0+593.0	7559350.26	433361.25	60.82
0+610.5	7559349.22	433378.73	61.13
0+625.0	7559346.75	433393.04	61.34
0+645.0	7559345.78	433413.06	61.65
0+668.7	7559348.24	433436.58	61.96
0+676.0	7559348.95	433443.82	62.03

ROQ Berm Centerline Stakeout Table			
Chainage	Northing	Easting	Elevation
0+210.2	7559271.53	432986.52	58.59
0+218.1	7559274.22	432993.96	58.67
0+222.7	7559275.25	432998.43	58.71
0+227.2	7559277.11	433002.49	58.76
0+241.8	7559285.82	433014.23	58.90
0+252.9	7559291.40	433023.80	59.01
0+264.4	7559293.59	433035.18	59.13
0+269.7	7559294.24	433040.39	59.19
0+274.5	7559294.56	433045.18	59.24
0+284.8	7559297.23	433055.08	59.34
0+304.3	7559298.53	433074.56	59.53
0+314.1	7559299.54	433084.34	59.63
0+333.3	7559299.50	433103.54	59.83
0+342.1	7559300.58	433112.24	59.91
0+344.1	7559300.51	433114.26	59.94
0+356.1	7559292.61	433123.34	60.06
0+366.3	7559290.15	433133.23	60.16
0+395.3	7559288.40	433162.16	60.45
0+403.6	7559289.08	433170.41	60.52
0+431.3	7559300.16	433195.80	60.82
0+440.1	7559302.39	433204.36	60.92
0+448.5	7559306.01	433211.93	61.02
0+457.9	7559307.69	433221.18	61.13
0+475.3	7559312.37	433237.89	61.33
0+488.1	7559313.00	433250.70	61.48
0+500.0	7559311.76	433262.53	61.61
0+518.9	7559323.86	433277.11	61.79
0+535.0	7559328.73	433292.40	61.95
0+549.1	7559335.50	433304.79	62.09
0+554.8	7559337.99	433309.93	62.15
0+592.3	7559346.16	433346.55	62.53
0+600.3	7559344.90	433354.44	62.61
0+613.3	7559344.24	433367.42	62.74
0+624.0	7559343.69	433378.09	62.91
0+638.5	7559341.18	433392.36	63.14
0+659.2	7559340.10	433413.00	63.48
0+672.2	7559341.43	433425.94	63.69
0+689.2	7559343.16	433442.83	64.10

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DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
1	UPDATED TOPOGRAPHY	LW	EMR	13JAN12
0	ISSUED FOR CONSTRUCTION	LW	EMR	9DEC11
A	ISSUED FOR REVIEW	LW	EMR	5DEC11

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW | DRAWN: NV | REVIEWED: EMR
CHECKED: LW | APPROVED: EMR | DATE: Jan. 13, 2011
FILE NAME: 1CH008.058.217-PLN-DN-WDB-01_02_03 Rev 1.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 | SRK DWG NO.: DN-WDB-02

Doris North Project

DRAWING TITLE:
Diversion Berm
Keytrench and ROQ Berm Stakeout Tables

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0167 | SHEET 3 of 5 | REVISION NO. 1

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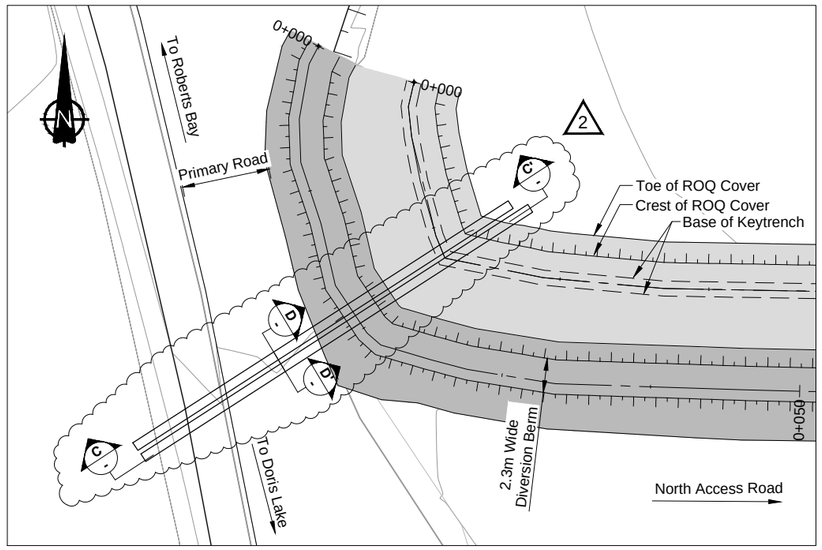

1 CULVERT INLET DETAIL
DN-WDB-01
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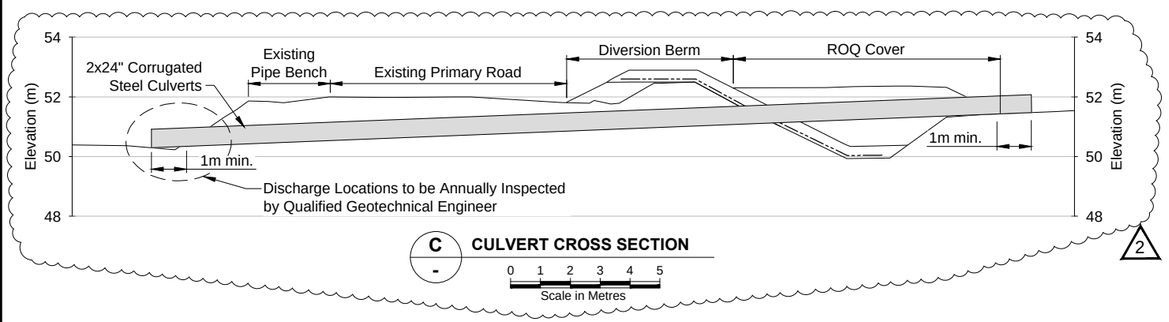
Scale in Metres



C - CULVERT CROSS SECTION
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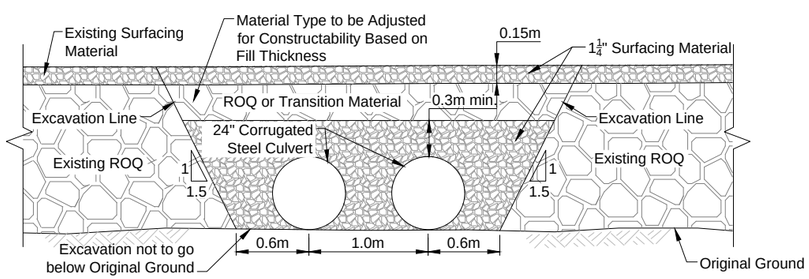
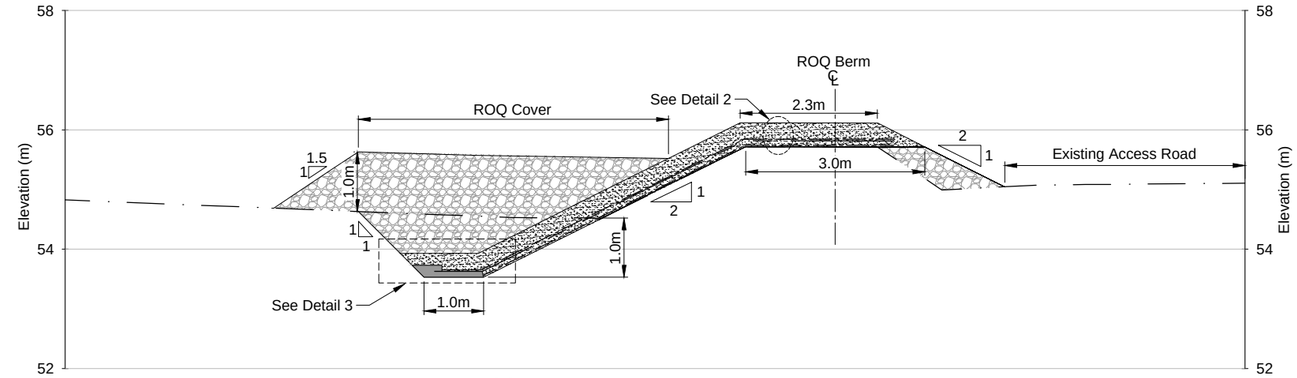
Scale in Metres



D - CROSS SECTION OF CULVERT CROSSING
NOT TO SCALE



A - CROSS SECTION A - A'
DN-WDB-01
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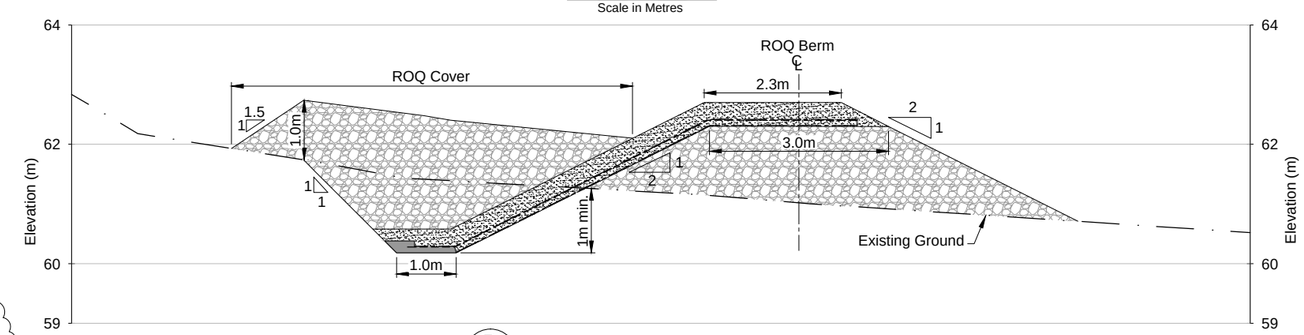
Scale in Metres



B - CROSS SECTION B - B'
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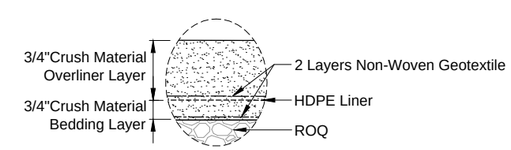
Scale in Metres



2 - LINER SYSTEM DETAIL
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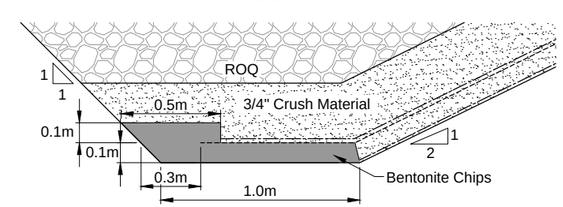
Scale in Metres



3 - BENTONITE CHIP DETAIL
0 0.2 0.4 0.6 0.8 1
Scale in Metres

LEGEND

- Bentonite Chips
- 3/4" Crush Material
- Run of Quarry Material
- Liner System
- Textured HDPE 60mil
- 12oz. Non-woven Geotextile
- Existing ground surface

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
2	UPDATED CULVERTS	LW	EMR	17JAN12
1	UPDATED TOPOGRAPHY	LW	EMR	13JAN12
0	ISSUED FOR CONSTRUCTION	LW	EMR	9DEC11
A	ISSUED FOR REVIEW	LW	EMR	5DEC11

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW | DRAWN: NV | REVIEWED: EMR
CHECKED: LW | APPROVED: EMR | DATE: Jan. 17, 2011
FILE NAME: 1CH008.058.217-PLN-DN-WDB-01_02_03 Rev 2.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 | SRK DWG NO.: DN-WDB-03

Doris North Project

DRAWING TITLE: Diversion Berm Sections and Details

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0168 | SHEET 4 of 5 | REVISION NO. 2

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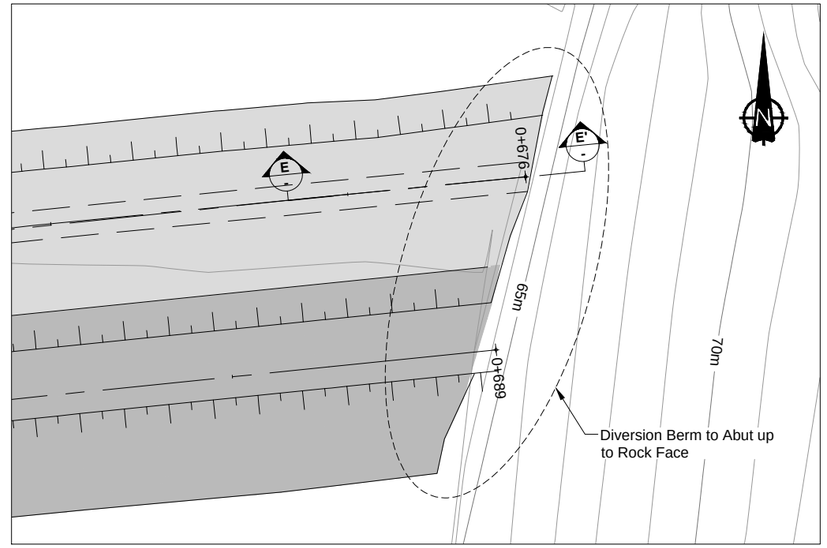
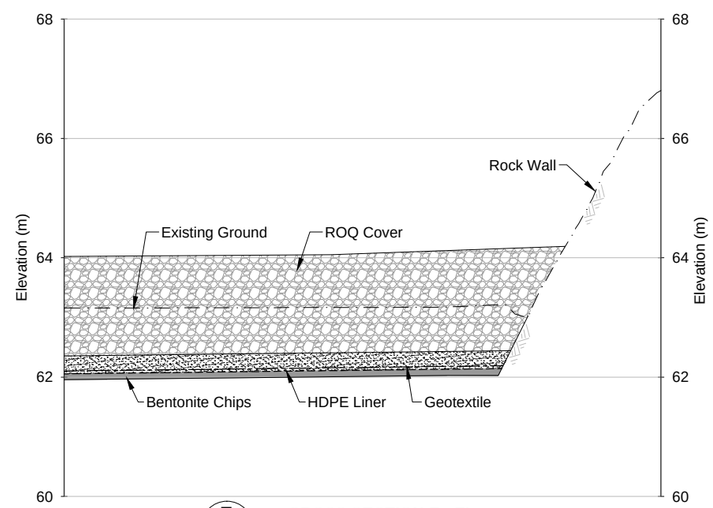


PLAN VIEW LEGEND

- Diversion Berm Area (3/4" Material)
- ROQ Cover Area

4 KEYTRENCH / ROCK WALL TIE-IN DETAIL
DN-WDB-01

0 1 2 3 4 5
Scale in Metres



E - E' CROSS SECTION E - E'

0 0.5 1 1.5 2 2.5
Scale in Metres

SECTION LEGEND

- Bentonite Chips
- 3/4" Crush Material
- Run of Quarry Material
- Liner System
- Textured HDPE 60mil
- 12oz. Non-woven Geotextile
- Existing ground surface

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS			

NO.	DESCRIPTION	CHK'D	APP'D	DATE
0	ISSUED FOR CONSTRUCTION	LW	EMR	13JAN12

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: NV	REVIEWED: EMR
CHECKED: LW	APPROVED: EMR	DATE: Jan. 13, 2011

FILE NAME: 1CH008.058.217-PLN-DN-WDB-01_02_03 Rev 1.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 SRK DWG NO.: DN-WDB-04

Doris North Project

DRAWING TITLE:
Diversion Berm
Sections and Details Continued

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0169
SHEET 5 of 5
REVISION NO. 0

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Engineering Drawings for the North Dam, Doris North Project, Nunavut, Canada

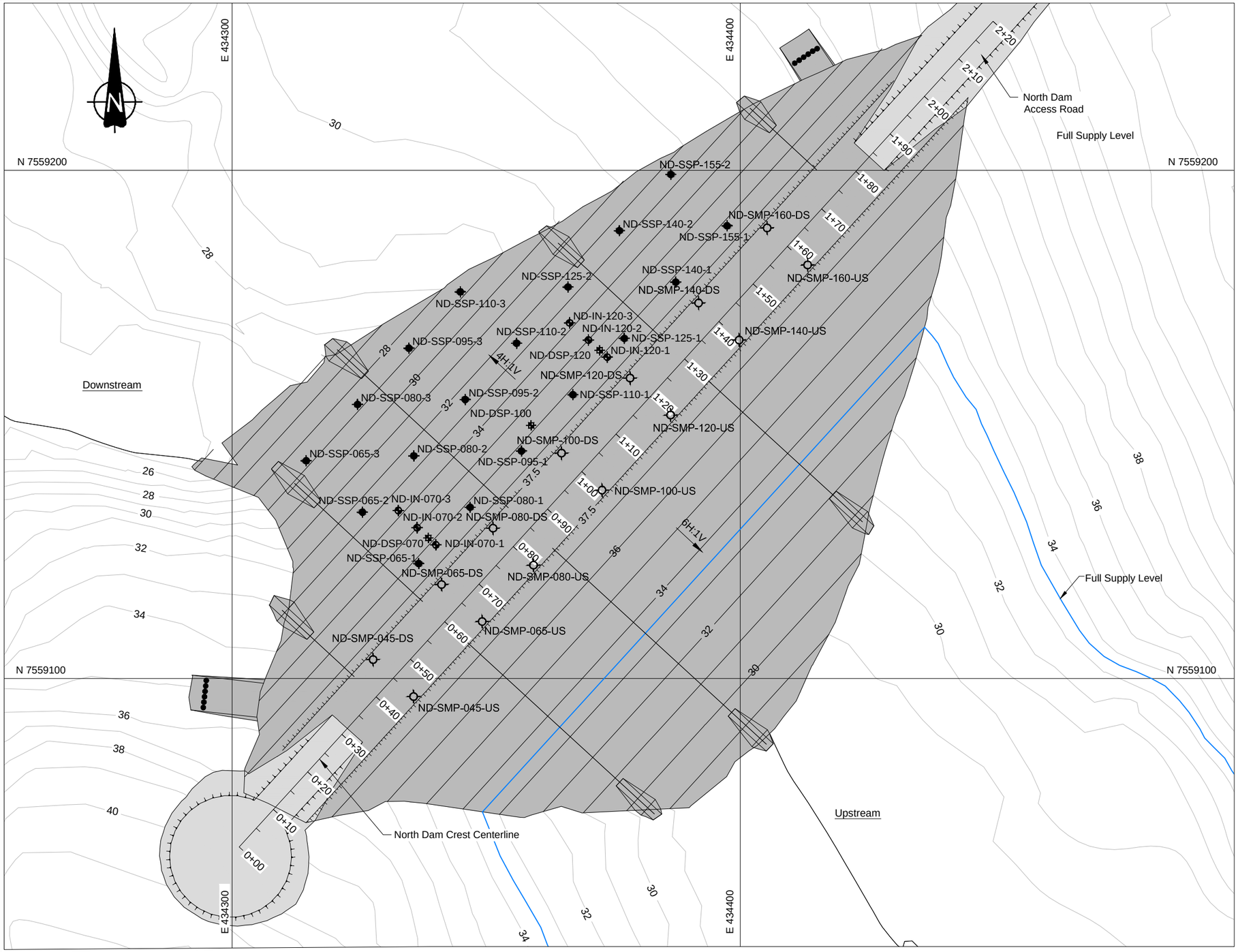
ACTIVE DRAWING STATUS

SRK DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS		
DN-ND-00	HB+T-CIV-CIV-OND-0020	Engineering Drawings for North Dam	4	Feb. 10, 2012	Drawings Added	Rev. 3, Mar. 31, 2011	Rev. 2, Feb. 16, 2011	Rev. 1, Feb. 4, 2011
DN-ND-01	HB+T-CIV-CIV-OND-0021	North Dam General Arrangement	1	Mar. 31, 2011	Updated Stake Out Tables	Rev. 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-02	HB+T-CIV-CIV-OND-0022	North Dam Geological Section and Typical Cross Section	1	Feb. 4, 2011	Updated Service Road Elev.	Rev. 0, Dec. 3, 2010		
DN-ND-03	HB+T-CIV-CIV-OND-0023	North Dam Key Trench Layout & Vertical Ground Temperature Cable Drill Holes	1	Dec. 3, 2010	Updated Stakeout Table	Rev. 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-04	HB+T-CIV-CIV-OND-0024	North Dam Thermosyphon Evaporator Pipe Layout	3	Feb. 16, 2011	Minor Text Edit	Rev. 2, Feb. 9, 2011	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010
DN-ND-05	HB+T-CIV-CIV-OND-0025	North Dam Geosynthetic Clay Liner Lower and Upper Layout	2	Feb. 9, 2011	Updated Stakeout Table	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-06	HB+T-CIV-CIV-OND-0026	North Dam Core Layout	1	Feb. 9, 2011	Minor Text Edits	Rev. 0, Dec. 3, 2010		
DN-ND-07	HB+T-CIV-CIV-OND-0027	North Dam Transition Material Layout	1	Feb. 4, 2011	Updated Radiator Layout	Rev. 0, Dec. 3, 2010		
DN-ND-08	HB+T-CIV-CIV-OND-0028	North Dam Shell Access Road and Turnaround Layout	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Dec. 3, 2010		
DN-ND-09	HB+T-CIV-CIV-OND-0029	North Dam Vertical Ground Temperature Cables Layout	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-10	HB+T-CIV-CIV-OND-0030	North Dam Horizontal Ground Temperature Cable Layout - Top of Liner	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-11	HB+T-CIV-CIV-OND-0031	North Dam Horizontal Ground Temperature Cable Layout - Middle Core	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-12	HB+T-CIV-CIV-OND-0032	North Dam Horizontal Ground Temperature Cable Layout - Upper Core	1	Feb. 4, 2011	Added Quantity Table	Rev. 0, Dec. 3, 2010		
DN-ND-13	HB+T-CIV-CIV-OND-0033	North Dam Ground Temperature Cables on Layout of Shell	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-14	HB+T-CIV-CIV-OND-0034	North Dam Ground Temperature Cable Clusters at Chainage 0+40 and 0+60	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Dec. 3, 2010		
DN-ND-15	HB+T-CIV-CIV-OND-0035	North Dam Ground Temperature Cable Clusters at Chainage 0+85 and 1+30	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Dec. 3, 2010		
DN-ND-16	HB+T-CIV-CIV-OND-0036	North Dam Ground Temperature Cable Clusters at Chainage 1+75	2	Mar. 31, 2011	Minor Edits	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-17	HB+T-CIV-CIV-OND-0037	North Dam Sections 0+10 to 0+40	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-18	HB+T-CIV-CIV-OND-0038	North Dam Sections 0+45 to 0+55	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-19	HB+T-CIV-CIV-OND-0039	North Dam Sections 0+60 to 0+70	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-20	HB+T-CIV-CIV-OND-0040	North Dam Sections 0+75 to 0+85	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-21	HB+T-CIV-CIV-OND-0041	North Dam Sections 0+90 to 1+00	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-22	HB+T-CIV-CIV-OND-0042	North Dam Sections 1+05 to 1+15	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-23	HB+T-CIV-CIV-OND-0043	North Dam Sections 1+20 to 1+30	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-24	HB+T-CIV-CIV-OND-0044	North Dam Sections 1+35 to 1+55	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-25	HB+T-CIV-CIV-OND-0045	North Dam Sections 1+60 to 1+85	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-26	HB+T-CIV-CIV-OND-0046	North Dam Sections 1+90 to 2+10	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-27	HB+T-CIV-CIV-OND-0047	North Dam Thermosyphon Details	2	Feb. 9, 2011	Update Thermosyphon Layout	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-28	HB+T-CIV-CIV-OND-0048	North Dam Stake Out Coordinates for Instrument Clusters	0	Dec. 3, 2010	Issued for Construction			
DN-ND-29	HB+T-CIV-CIV-OND-0049	North Dam Percolation Test Borehole Locations	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Jan. 20, 2011		
DN-ND-30	HB+T-CIV-CIV-OND-0061	North Dam Additional Instrumentation Layout	A	Feb. 10, 2012	Issued for Review			
DN-ND-31	HB+T-CIV-CIV-OND-0062	North Dam Typical Additional Instrumentation Section and Details	A	Feb. 10, 2012	Issued for Review			

HOPE BAY MINING LTD.

srk consulting

PROJECT NO: 1CH008.058
Revision 4
February 10, 2012
DN-ND-00 / HB+T-CIV-CIV-OND-0020



LEGEND

- Inclinometer Location
- Surficial Survey Points
- Deep Settlement Points
- Survey Monitoring Point

NOTES

1. Topographic contour data for the terrain model was provided by the Contractor.
2. The co-ordinate system is UTM NAD 83, Zone 13.

INCLINOMETER LOCATION STAKEOUT TABLE		
ID	Northing	Easting
ND-IN-070-1	7559126.31	434340.09
ND-IN-070-2	7559129.68	434336.40
ND-IN-070-3	7559133.05	434332.71
ND-IN-120-1	7559163.23	434373.81
ND-IN-120-2	7559166.60	434370.11
ND-IN-120-3	7559169.98	434366.42

SURFICIAL SURVEY POINTS STAKEOUT TABLE		
ID	Northing	Easting
ND-SSP-065-1	7559122.62	434336.72
ND-SSP-065-2	7559132.73	434325.64
ND-SSP-065-3	7559142.85	434314.57
ND-SSP-080-1	7559133.69	434346.83
ND-SSP-080-2	7559143.81	434335.76
ND-SSP-080-3	7559153.92	434324.68
ND-SSP-095-1	7559144.77	434356.95
ND-SSP-095-2	7559154.89	434345.87
ND-SSP-095-3	7559165.00	434334.79
ND-SSP-110-1	7559155.85	434367.06
ND-SSP-110-2	7559165.96	434355.99
ND-SSP-110-3	7559176.08	434344.91
ND-SSP-125-1	7559166.92	434377.18
ND-SSP-125-2	7559177.04	434366.10
ND-SSP-140-1	7559178.00	434387.29
ND-SSP-140-2	7559188.12	434376.22
ND-SSP-155-1	7559189.08	434397.41
ND-SSP-155-2	7559199.19	434386.33

DEEP SETTLEMENT POINTS STAKEOUT TABLE		
ID	Northing	Easting
ND-DSP-070	7559127.66	434338.61
ND-DSP-100	7559149.81	434358.84
ND-DSP-120	7559164.58	434372.33

SURVEY MONITORING POINTS STAKE OUT TABLE			
ID	Northing	Easting	Elev. (m)
ND-SMP-045-DS	7559103.73	434327.74	37.50
ND-SMP-065-DS	7559118.50	434341.22	37.50
ND-SMP-080-DS	7559129.58	434351.34	37.50
ND-SMP-100-DS	7559144.35	434364.82	37.50
ND-SMP-120-DS	7559159.12	434378.31	37.50
ND-SMP-140-DS	7559173.89	434391.80	37.50
ND-SMP-160-DS	7559188.66	434405.28	37.50
ND-SMP-045-US	7559096.45	434335.71	37.50
ND-SMP-065-US	7559111.22	434349.20	37.50
ND-SMP-080-US	7559122.30	434359.31	37.50
ND-SMP-100-US	7559137.07	434372.80	37.50
ND-SMP-120-US	7559151.84	434386.29	37.50
ND-SMP-140-US	7559166.61	434399.77	37.50
ND-SMP-160-US	7559181.38	434413.26	37.50

0 4 8 12 16 20
Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
A	ISSUED FOR REVIEW	LW	EMR	10Feb12

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: NV	REVIEWED: EMR
CHECKED: LW	APPROVED: EMR	DATE: Feb. 10, 2012

FILE NAME: 1CH008.058–DNND30–RevA.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 SRK DWG NO.: DN-ND-30

Doris North Project

DRAWING TITLE:

North Dam
Additional Instrumentation Layout

NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0061

SHEET 31 of 32

REVISION NO. A

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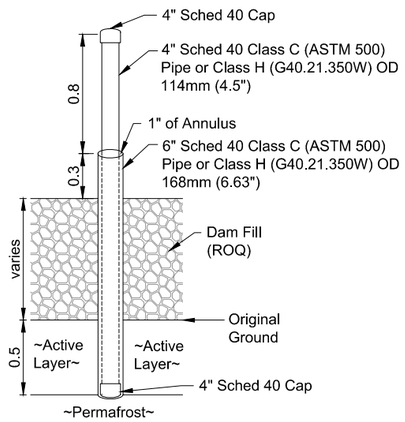
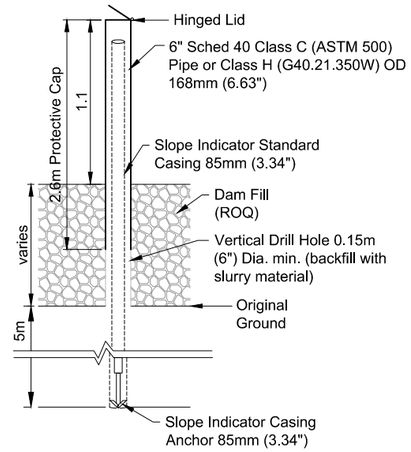
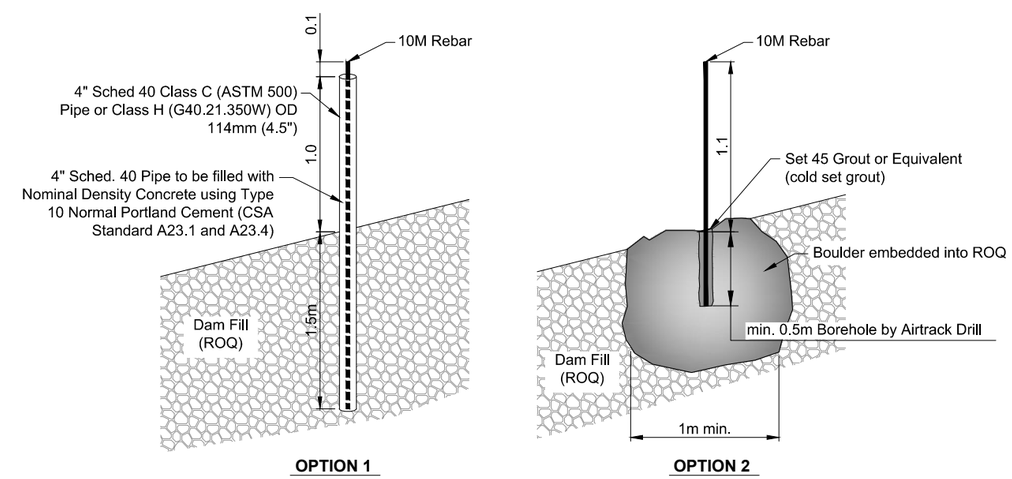


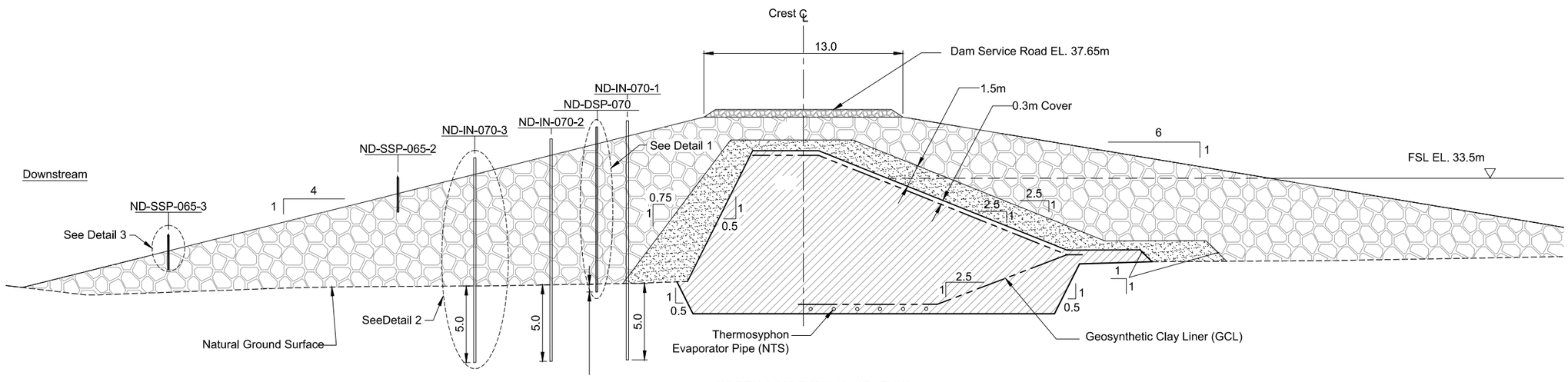
DETAIL 1
1 DEEP SETTLEMENT POINT INSTALLATION
Not to Scale



DETAIL 2
2 INCLINOMETER INSTALLATION
Not to Scale



DETAIL 3
3 SURFICIAL SURVEY POINT INSTALLATION
Not to Scale



NORTH DAM TYPICAL SECTION

0 1 2 3 4 5
Scale in Metres

LEGEND

- Natural Ground
- Geosynthetic Clay Liner (GCL)
- Stratigraphic Boundary
- Thermosyphon Evaporator Pipe (NTS)
- Core Material
- Transition Material
- Run of Quarry (ROQ)
- Surfacing Material
- Bedrock
- Peat

NOTES

1. Arc and resistance welding of the steel pipe to be in accordance of CSA standards W59 and W55.3, for all procedures and practices. Refer to CSA standard W48 [Clause 5.1.8 of CAN/CSA-S16-01 Limit States Design of Steel Structures] for welding electrodes.
2. All monitoring points are to be clearly marked for easy identification according to HBML safety procedures.
3. Construction shall be in accordance in the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay Project, Nunavut, Canada, Revision G - Issue for Construction.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS			

NO.	DESCRIPTION	CHK'D	APP'D	DATE
A	ISSUED FOR REVIEW	LW	EMR	10Feb12
REVISIONS				

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: NV	REVIEWED: EMR
CHECKED: LW	APPROVED: EMR	DATE: Feb. 10, 2012

FILE NAME: 1CH008.058-DNND31-RevA.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 SRK DWG NO.: DN-ND-31

Doris North Project

DRAWING TITLE:
North Dam
Typical Additional Instrumentation
Section and Details

NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0062
SHEET 32 of 32
REVISION NO. A

C:\01_SITES\Hope Bay\North Dam\1CH008.058-DNND31-RevA.dwg

Engineering Drawings for the North Dam, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

SRK DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS		
DN-ND-00	HB+T-CIV-CIV-OND-0020	Engineering Drawings for North Dam	5	Feb. 24, 2012	Minor Revisions	Rev. 4, Feb. 10, 2012	Rev. 3, Mar. 31, 2011	Rev. 2, Feb. 16, 2011
DN-ND-01	HB+T-CIV-CIV-OND-0021	North Dam General Arrangement	1	Mar. 31, 2011	Updated Stake Out Tables	Rev. 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-02	HB+T-CIV-CIV-OND-0022	North Dam Geological Section and Typical Cross Section	1	Feb. 4, 2011	Updated Service Road Elev.	Rev. 0, Dec. 3, 2010		
DN-ND-03	HB+T-CIV-CIV-OND-0023	North Dam Key Trench Layout & Vertical Ground Temperature Cable Drill Holes	1	Dec. 3, 2010	Updated Stakeout Table	Rev. 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-04	HB+T-CIV-CIV-OND-0024	North Dam Thermosyphon Evaporator Pipe Layout	3	Feb. 16, 2011	Minor Text Edit	Rev. 2, Feb. 9, 2011	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010
DN-ND-05	HB+T-CIV-CIV-OND-0025	North Dam Geosynthetic Clay Liner Lower and Upper Layout	2	Feb. 9, 2011	Updated Stakeout Table	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-06	HB+T-CIV-CIV-OND-0026	North Dam Core Layout	1	Feb. 9, 2011	Minor Text Edits	Rev. 0, Dec. 3, 2010		
DN-ND-07	HB+T-CIV-CIV-OND-0027	North Dam Transition Material Layout	1	Feb. 4, 2011	Updated Radiator Layout	Rev. 0, Dec. 3, 2010		
DN-ND-08	HB+T-CIV-CIV-OND-0028	North Dam Shell Access Road and Turnaround Layout	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Dec. 3, 2010		
DN-ND-09	HB+T-CIV-CIV-OND-0029	North Dam Vertical Ground Temperature Cables Layout	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-10	HB+T-CIV-CIV-OND-0030	North Dam Horizontal Ground Temperature Cable Layout - Top of Liner	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-11	HB+T-CIV-CIV-OND-0031	North Dam Horizontal Ground Temperature Cable Layout - Middle Core	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-12	HB+T-CIV-CIV-OND-0032	North Dam Horizontal Ground Temperature Cable Layout - Upper Core	1	Feb. 4, 2011	Added Quantity Table	Rev. 0, Dec. 3, 2010		
DN-ND-13	HB+T-CIV-CIV-OND-0033	North Dam Ground Temperature Cables on Layout of Shell	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-14	HB+T-CIV-CIV-OND-0034	North Dam Ground Temperature Cable Clusters at Chainage 0+40 and 0+60	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Dec. 3, 2010		
DN-ND-15	HB+T-CIV-CIV-OND-0035	North Dam Ground Temperature Cable Clusters at Chainage 0+85 and 1+30	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Dec. 3, 2010		
DN-ND-16	HB+T-CIV-CIV-OND-0036	North Dam Ground Temperature Cable Clusters at Chainage 1+75	2	Mar. 31, 2011	Minor Edits	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-17	HB+T-CIV-CIV-OND-0037	North Dam Sections 0+10 to 0+40	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-18	HB+T-CIV-CIV-OND-0038	North Dam Sections 0+45 to 0+55	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-19	HB+T-CIV-CIV-OND-0039	North Dam Sections 0+60 to 0+70	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-20	HB+T-CIV-CIV-OND-0040	North Dam Sections 0+75 to 0+85	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-21	HB+T-CIV-CIV-OND-0041	North Dam Sections 0+90 to 1+00	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-22	HB+T-CIV-CIV-OND-0042	North Dam Sections 1+05 to 1+15	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-23	HB+T-CIV-CIV-OND-0043	North Dam Sections 1+20 to 1+30	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-24	HB+T-CIV-CIV-OND-0044	North Dam Sections 1+35 to 1+55	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-25	HB+T-CIV-CIV-OND-0045	North Dam Sections 1+60 to 1+85	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-26	HB+T-CIV-CIV-OND-0046	North Dam Sections 1+90 to 2+10	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-27	HB+T-CIV-CIV-OND-0047	North Dam Thermosyphon Details	2	Feb. 9, 2011	Update Thermosyphon Layout	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-28	HB+T-CIV-CIV-OND-0048	North Dam Stake Out Coordinates for Instrument Clusters	0	Dec. 3, 2010	Issued for Construction			
DN-ND-29	HB+T-CIV-CIV-OND-0049	North Dam Percolation Test Borehole Locations	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Jan. 20, 2011		
DN-ND-30	HB+T-CIV-CIV-OND-0061	North Dam Additional Instrumentation Layout	0	Feb. 24, 2012	Issued for Construction	Rev. A, Feb. 10, 2012		
DN-ND-31	HB+T-CIV-CIV-OND-0062	North Dam Typical Additional Instrumentation Section and Details	0	Feb. 24, 2012	Issued for Construction	Rev. A, Feb. 10, 2012		

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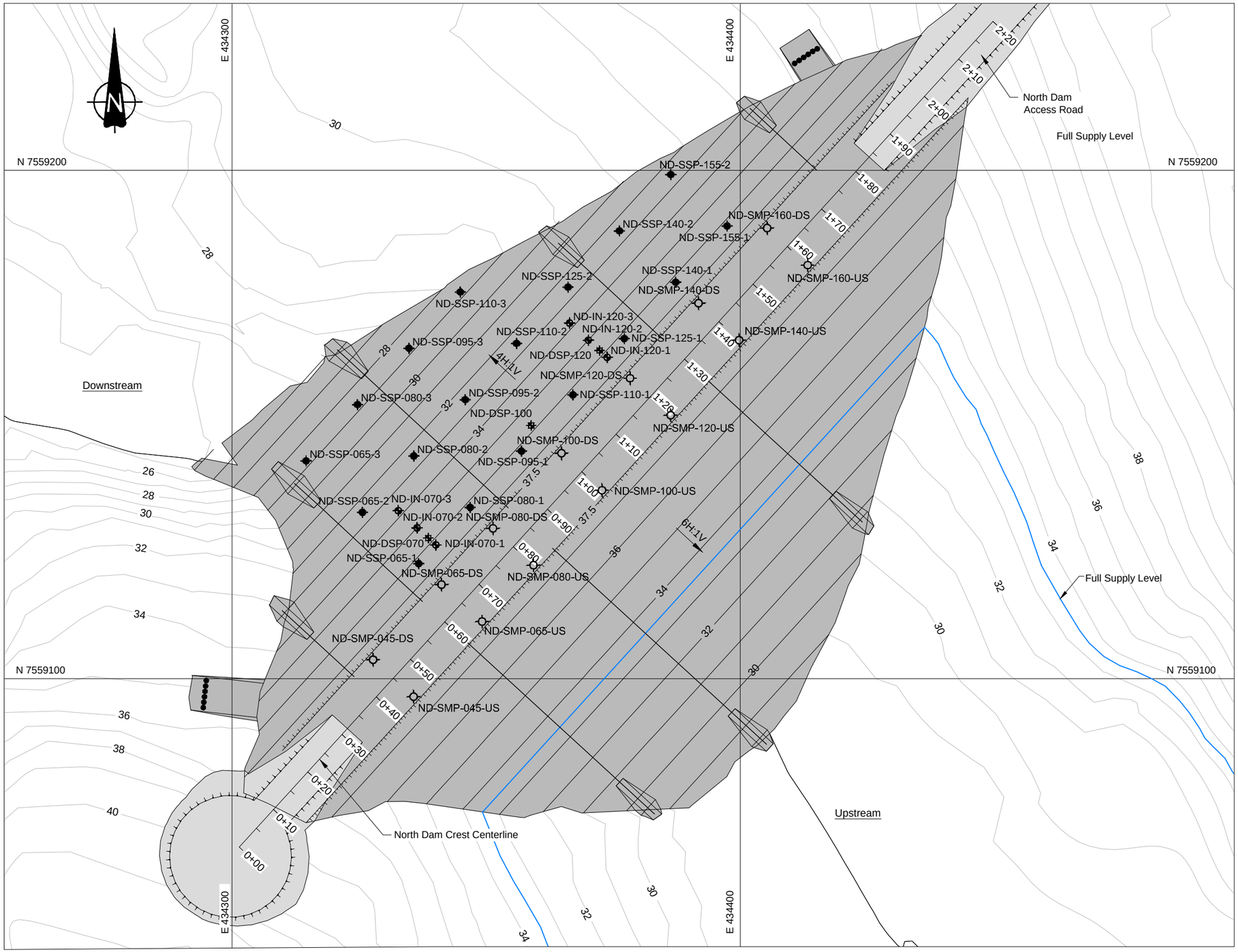
PROJECT NO: 1CH008.058
Revision 5
February 24, 2012
DN-ND-00 / HB+T-CIV-CIV-OND-0020



LEGEND

- Inclinometer Location
- Surficial Survey Points
- Deep Settlement Points
- Survey Monitoring Point

NOTES

1. Topographic contour data for the terrain model was provided by the Contractor.
2. The co-ordinate system is UTM NAD 83, Zone 13.

INCLINOMETER LOCATION STAKEOUT TABLE		
ID	Northing	Easting
ND-IN-070-1	7559126.31	434340.09
ND-IN-070-2	7559129.68	434336.40
ND-IN-070-3	7559133.05	434332.71
ND-IN-120-1	7559163.23	434373.81
ND-IN-120-2	7559166.60	434370.11
ND-IN-120-3	7559169.98	434366.42

SURFICIAL SURVEY POINTS STAKEOUT TABLE		
ID	Northing	Easting
ND-SSP-065-1	7559122.62	434336.72
ND-SSP-065-2	7559132.73	434325.64
ND-SSP-065-3	7559142.85	434314.57
ND-SSP-080-1	7559133.69	434346.83
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ND-SSP-095-3	7559165.00	434334.79
ND-SSP-110-1	7559155.85	434367.06
ND-SSP-110-2	7559165.96	434355.99
ND-SSP-110-3	7559176.08	434344.91
ND-SSP-125-1	7559166.92	434377.18
ND-SSP-125-2	7559177.04	434366.10
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ND-SSP-140-2	7559188.12	434376.22
ND-SSP-155-1	7559189.08	434397.41
ND-SSP-155-2	7559199.19	434386.33

DEEP SETTLEMENT POINTS STAKEOUT TABLE		
ID	Northing	Easting
ND-DSP-070	7559127.66	434338.61
ND-DSP-100	7559149.81	434358.84
ND-DSP-120	7559164.58	434372.33

SURVEY MONITORING POINTS STAKE OUT TABLE			
ID	Northing	Easting	Elev. (m)
ND-SMP-045-DS	7559103.73	434327.74	37.50
ND-SMP-065-DS	7559118.50	434341.22	37.50
ND-SMP-080-DS	7559129.58	434351.34	37.50
ND-SMP-100-DS	7559144.35	434364.82	37.50
ND-SMP-120-DS	7559159.12	434378.31	37.50
ND-SMP-140-DS	7559173.89	434391.80	37.50
ND-SMP-160-DS	7559188.66	434405.28	37.50
ND-SMP-045-US	7559096.45	434335.71	37.50
ND-SMP-065-US	7559111.22	434349.20	37.50
ND-SMP-080-US	7559122.30	434359.31	37.50
ND-SMP-100-US	7559137.07	434372.80	37.50
ND-SMP-120-US	7559151.84	434386.29	37.50
ND-SMP-140-US	7559166.61	434399.77	37.50
ND-SMP-160-US	7559181.38	434413.26	37.50

0 4 8 12 16 20
Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
0	ISSUED FOR CONSTRUCTION	LW	EMR	24Feb12
A	ISSUED FOR REVIEW	LW	EMR	10Feb12

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW | DRAWN: NV | REVIEWED: EMR
CHECKED: LW | APPROVED: EMR | DATE: Feb. 24, 2012
FILE NAME: 1CH008.058–DNND30–Rev0.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 | SRK DWG NO.: DN-ND-30

Doris North Project

DRAWING TITLE:
North Dam
Additional Instrumentation Layout

NEWMONT DRAWING NO.: HB+T-CIV-CIV-OND-0061 | SHEET: 31 of 32 | REVISION NO.: 0

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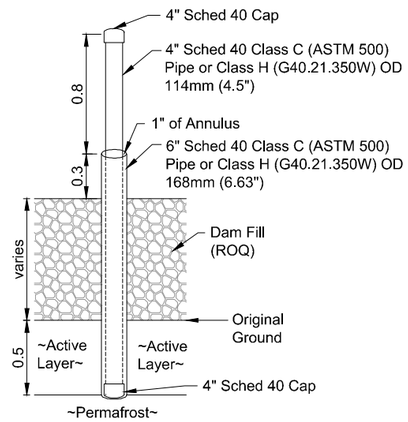

DETAIL 1
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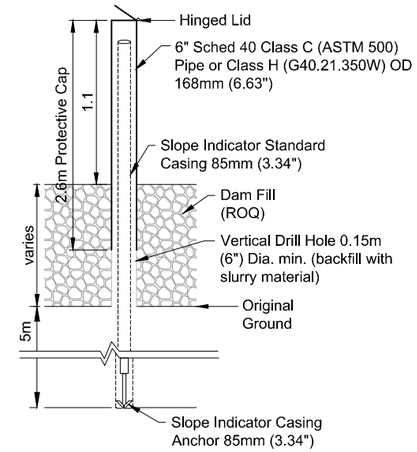

DETAIL 2
2 INCLINOMETER INSTALLATION
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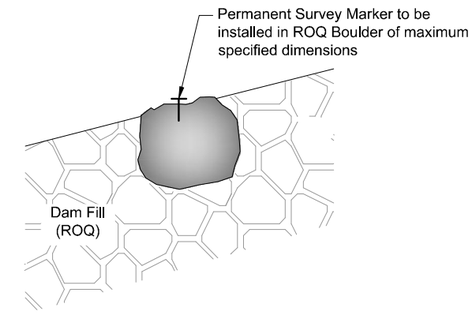

DETAIL 3
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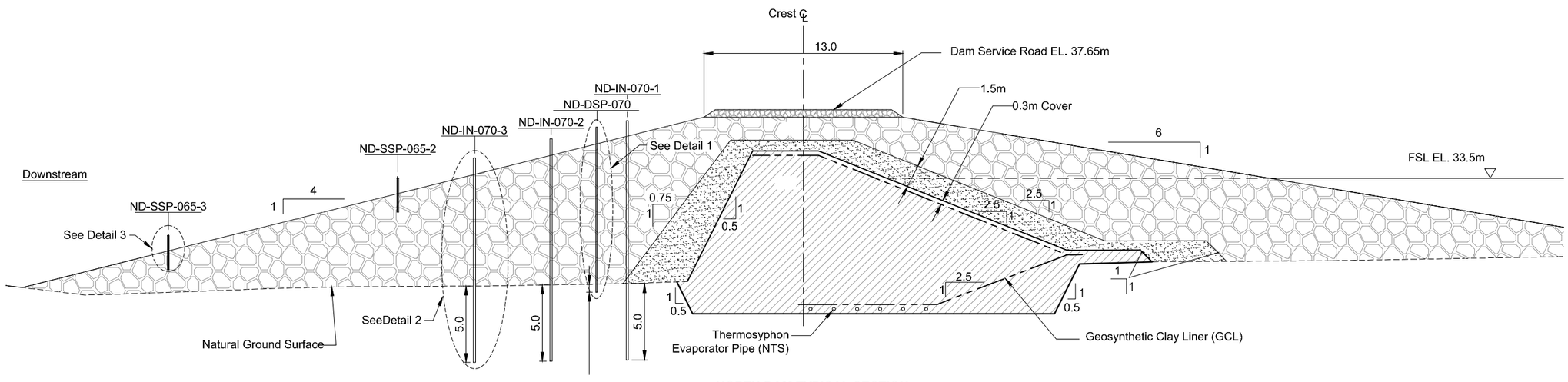
Not to Scale



NORTH DAM TYPICAL SECTION

0 1 2 3 4 5
Scale in Metres

LEGEND

- Natural Ground
- Geosynthetic Clay Liner (GCL)
- Stratigraphic Boundary
- Thermosyphon Evaporator Pipe (NTS)
- Core Material
- Transition Material
- Run of Quarry (ROQ)
- Surfacing Material
- Bedrock
- Peat

NOTES

1. Arc and resistance welding of the steel pipe to be in accordance of CSA standards W59 and W55.3, for all procedures and practices. Refer to CSA standard W48 [Clause 5.1.8 of CAN/CSA-S16-01 Limit States Design of Steel Structures] for welding electrodes.
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3. Construction shall be in accordance with the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay Project, Nunavut, Canada, Revision G - Issue for Construction.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS			

NO.	DESCRIPTION	CHK'D	APP'D	DATE
0	ISSUED FOR CONSTRUCTION	LW	EMR	24Feb12
A	ISSUED FOR REVIEW	LW	EMR	10Feb12

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: NV	REVIEWED: EMR
CHECKED: LW	APPROVED: EMR	DATE: Feb. 24, 2012

FILE NAME: 1CH008.058–DNND31–Rev0.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 SRK DWG NO.: DN-ND-31

Doris North Project

DRAWING TITLE:
North Dam
Typical Additional Instrumentation
Section and Details

NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0062
SHEET 32 of 32
REVISION NO. 0

C:\01_SITES\Hope Bay\North Dam\1CH008.058–DNND31–Rev0.dwg

Engineering Drawings for the North Dam, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

SRK DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS		
DN-ND-00	HB+T-CIV-CIV-OND-0020	Engineering Drawings for North Dam	6	Mar. 19, 2012	Minor Revisions	Rev. 5, Feb. 24, 2012	Rev. 4, Feb. 10, 2012	Rev. 3, Mar. 31, 2011
DN-ND-01	HB+T-CIV-CIV-OND-0021	North Dam General Arrangement	1	Mar. 31, 2011	Updated Stake Out Tables	Rev. 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-02	HB+T-CIV-CIV-OND-0022	North Dam Geological Section and Typical Cross Section	1	Feb. 4, 2011	Updated Service Road Elev.	Rev. 0, Dec. 3, 2010		
DN-ND-03	HB+T-CIV-CIV-OND-0023	North Dam Key Trench Layout & Vertical Ground Temperature Cable Drill Holes	1	Dec. 3, 2010	Updated Stakeout Table	Rev. 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-04	HB+T-CIV-CIV-OND-0024	North Dam Thermosyphon Evaporator Pipe Layout	3	Feb. 16, 2011	Minor Text Edit	Rev. 2, Feb. 9, 2011	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010
DN-ND-05	HB+T-CIV-CIV-OND-0025	North Dam Geosynthetic Clay Liner Lower and Upper Layout	2	Feb. 9, 2011	Updated Stakeout Table	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
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DN-ND-07	HB+T-CIV-CIV-OND-0027	North Dam Transition Material Layout	1	Feb. 4, 2011	Updated Radiator Layout	Rev. 0, Dec. 3, 2010		
DN-ND-08	HB+T-CIV-CIV-OND-0028	North Dam Shell Access Road and Turnaround Layout	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Dec. 3, 2010		
DN-ND-09	HB+T-CIV-CIV-OND-0029	North Dam Vertical Ground Temperature Cables Layout	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-10	HB+T-CIV-CIV-OND-0030	North Dam Horizontal Ground Temperature Cable Layout - Top of Liner	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-11	HB+T-CIV-CIV-OND-0031	North Dam Horizontal Ground Temperature Cable Layout - Middle Core	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-12	HB+T-CIV-CIV-OND-0032	North Dam Horizontal Ground Temperature Cable Layout - Upper Core	1	Feb. 4, 2011	Added Quantity Table	Rev. 0, Dec. 3, 2010		
DN-ND-13	HB+T-CIV-CIV-OND-0033	North Dam Ground Temperature Cables on Layout of Shell	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-14	HB+T-CIV-CIV-OND-0034	North Dam Ground Temperature Cable Clusters at Chainage 0+40 and 0+60	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Dec. 3, 2010		
DN-ND-15	HB+T-CIV-CIV-OND-0035	North Dam Ground Temperature Cable Clusters at Chainage 0+85 and 1+30	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Dec. 3, 2010		
DN-ND-16	HB+T-CIV-CIV-OND-0036	North Dam Ground Temperature Cable Clusters at Chainage 1+75	2	Mar. 31, 2011	Minor Edits	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-17	HB+T-CIV-CIV-OND-0037	North Dam Sections 0+10 to 0+40	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-18	HB+T-CIV-CIV-OND-0038	North Dam Sections 0+45 to 0+55	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-19	HB+T-CIV-CIV-OND-0039	North Dam Sections 0+60 to 0+70	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-20	HB+T-CIV-CIV-OND-0040	North Dam Sections 0+75 to 0+85	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-21	HB+T-CIV-CIV-OND-0041	North Dam Sections 0+90 to 1+00	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-22	HB+T-CIV-CIV-OND-0042	North Dam Sections 1+05 to 1+15	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-23	HB+T-CIV-CIV-OND-0043	North Dam Sections 1+20 to 1+30	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-24	HB+T-CIV-CIV-OND-0044	North Dam Sections 1+35 to 1+55	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-25	HB+T-CIV-CIV-OND-0045	North Dam Sections 1+60 to 1+85	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-26	HB+T-CIV-CIV-OND-0046	North Dam Sections 1+90 to 2+10	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-27	HB+T-CIV-CIV-OND-0047	North Dam Thermosyphon Details	2	Feb. 9, 2011	Update Thermosyphon Layout	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-28	HB+T-CIV-CIV-OND-0048	North Dam Stake Out Coordinates for Instrument Clusters	0	Dec. 3, 2010	Issued for Construction			
DN-ND-29	HB+T-CIV-CIV-OND-0049	North Dam Percolation Test Borehole Locations	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Jan. 20, 2011		
DN-ND-30	HB+T-CIV-CIV-OND-0061	North Dam Additional Instrumentation Layout	0	Feb. 24, 2012	Issued for Construction	Rev. A, Feb. 10, 2012		
DN-ND-31	HB+T-CIV-CIV-OND-0062	North Dam Typical Additional Instrumentation Section and Details	1	Mar. 19, 2012	Edits to Details	Rev. 0, Feb. 24, 2012	Rev. A, Feb. 10, 2012	

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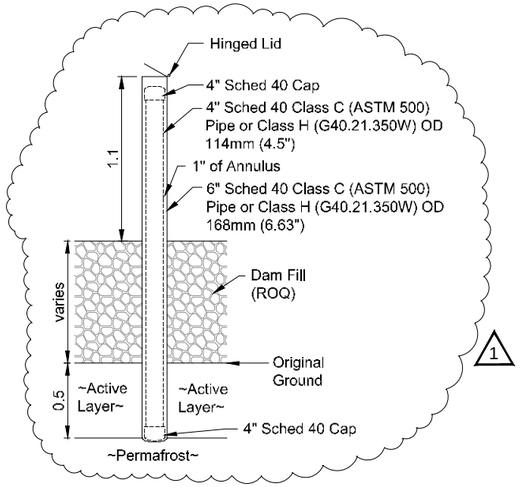
PROJECT NO: 1CH008.058
Revision 6
March 19, 2012
DN-ND-00 / HB+T-CIV-CIV-OND-0020



DETAIL 1
1 DEEP SETTLEMENT POINT INSTALLATION
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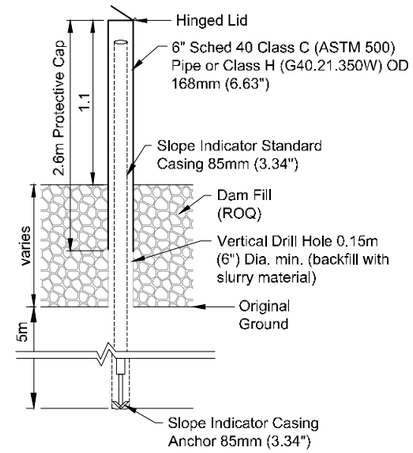
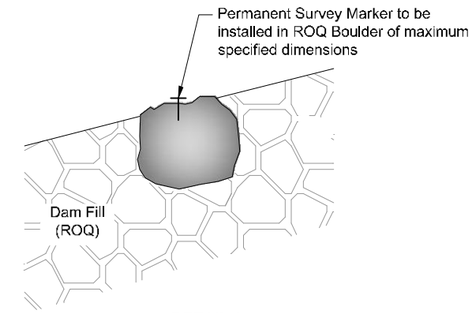
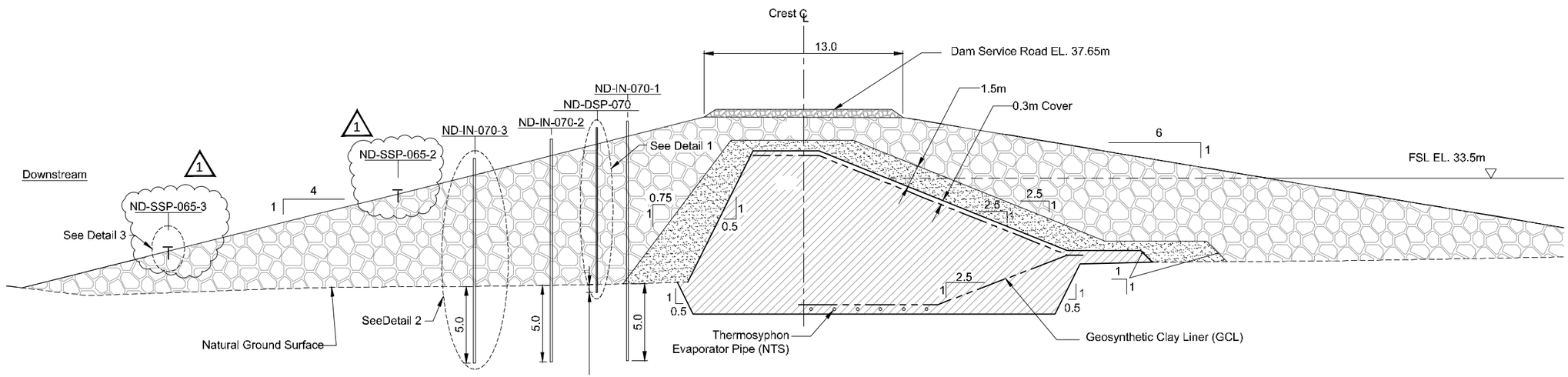


DETAIL 2
2 INCLINOMETER INSTALLATION
Not to Scale



DETAIL 3
3 SURFICIAL SURVEY POINT INSTALLATION
Not to Scale



NORTH DAM TYPICAL SECTION

0 1 2 3 4 5
Scale in Metres

LEGEND

- Natural Ground
- Geosynthetic Clay Liner (GCL)
- Stratigraphic Boundary
- Thermosyphon Evaporator Pipe (NTS)
- Core Material
- Transition Material
- Run of Quarry (ROQ)
- Surfacing Material
- Bedrock
- Peat

NOTES

1. Arc and resistance welding of the steel pipe to be in accordance of CSA standards W59 and W55.3, for all procedures and practices. Refer to CSA standard W48 [Clause 5.1.8 of CAN/CSA-S16-01 Limit States Design of Steel Structures] for welding electrodes.
2. All monitoring points are to be clearly marked for easy identification according to HBML safety procedures.
3. Construction shall be in accordance with the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay Project, Nunavut, Canada, Revision G - Issue for Construction.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS			

NO.	DESCRIPTION	CHK'D	APP'D	DATE
1	EDITS TO DETAILS	LW	EMR	19Mar12
0	ISSUED FOR CONSTRUCTION	LW	EMR	24Feb12
A	ISSUED FOR REVIEW	LW	EMR	10Feb12

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: NV	REVIEWED: EMR
CHECKED: LW	APPROVED: EMR	DATE: Mar. 19, 2012

FILE NAME: 1CH008.058-DNND31-Rev1.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 SRK DWG NO.: DN-ND-31

Doris North Project

DRAWING TITLE:
North Dam
Typical Additional Instrumentation
Section and Details

NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0062
SHEET 32 of 32
REVISION NO. 1

C:\01_SITES\Hope Bay\North Dam\1CH008.058-DNND31-Rev1.dwg

Engineering Drawings for the North Dam, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

SRK DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS		
DN-ND-00	HB+T-CIV-CIV-OND-0020	Engineering Drawings for North Dam	7	Apr. 2, 2012	Updated Details	Rev. 6, Mar. 19, 2012	Rev. 5, Feb. 24, 2012	Rev. 4, Feb. 10, 2012
DN-ND-01	HB+T-CIV-CIV-OND-0021	North Dam General Arrangement	1	Mar. 31, 2011	Updated Stake Out Tables	Rev. 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-02	HB+T-CIV-CIV-OND-0022	North Dam Geological Section and Typical Cross Section	1	Feb. 4, 2011	Updated Service Road Elev.	Rev. 0, Dec. 3, 2010		
DN-ND-03	HB+T-CIV-CIV-OND-0023	North Dam Key Trench Layout & Vertical Ground Temperature Cable Drill Holes	1	Dec. 3, 2010	Updated Stakeout Table	Rev. 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-04	HB+T-CIV-CIV-OND-0024	North Dam Thermosyphon Evaporator Pipe Layout	3	Feb. 16, 2011	Minor Text Edit	Rev. 2, Feb. 9, 2011	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010
DN-ND-05	HB+T-CIV-CIV-OND-0025	North Dam Geosynthetic Clay Liner Lower and Upper Layout	2	Feb. 9, 2011	Updated Stakeout Table	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-06	HB+T-CIV-CIV-OND-0026	North Dam Core Layout	1	Feb. 9, 2011	Minor Text Edits	Rev. 0, Dec. 3, 2010		
DN-ND-07	HB+T-CIV-CIV-OND-0027	North Dam Transition Material Layout	1	Feb. 4, 2011	Updated Radiator Layout	Rev. 0, Dec. 3, 2010		
DN-ND-08	HB+T-CIV-CIV-OND-0028	North Dam Shell Access Road and Turnaround Layout	2	Apr. 2, 2012	Updated Details	Rev. 1, Feb. 24, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-09	HB+T-CIV-CIV-OND-0029	North Dam Vertical Ground Temperature Cables Layout	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-10	HB+T-CIV-CIV-OND-0030	North Dam Horizontal Ground Temperature Cable Layout - Top of Liner	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-11	HB+T-CIV-CIV-OND-0031	North Dam Horizontal Ground Temperature Cable Layout - Middle Core	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-12	HB+T-CIV-CIV-OND-0032	North Dam Horizontal Ground Temperature Cable Layout - Upper Core	1	Feb. 4, 2011	Added Quantity Table	Rev. 0, Dec. 3, 2010		
DN-ND-13	HB+T-CIV-CIV-OND-0033	North Dam Ground Temperature Cables on Layout of Shell	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-14	HB+T-CIV-CIV-OND-0034	North Dam Ground Temperature Cable Clusters at Chainage 0+40 and 0+60	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Dec. 3, 2010		
DN-ND-15	HB+T-CIV-CIV-OND-0035	North Dam Ground Temperature Cable Clusters at Chainage 0+85 and 1+30	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Dec. 3, 2010		
DN-ND-16	HB+T-CIV-CIV-OND-0036	North Dam Ground Temperature Cable Clusters at Chainage 1+75	3	Apr. 2, 2012	Updated Details	Rev. 2, Mar. 31, 2011	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010
DN-ND-17	HB+T-CIV-CIV-OND-0037	North Dam Sections 0+10 to 0+40	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-18	HB+T-CIV-CIV-OND-0038	North Dam Sections 0+45 to 0+55	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-19	HB+T-CIV-CIV-OND-0039	North Dam Sections 0+60 to 0+70	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-20	HB+T-CIV-CIV-OND-0040	North Dam Sections 0+75 to 0+85	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-21	HB+T-CIV-CIV-OND-0041	North Dam Sections 0+90 to 1+00	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-22	HB+T-CIV-CIV-OND-0042	North Dam Sections 1+05 to 1+15	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-23	HB+T-CIV-CIV-OND-0043	North Dam Sections 1+20 to 1+30	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-24	HB+T-CIV-CIV-OND-0044	North Dam Sections 1+35 to 1+55	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-25	HB+T-CIV-CIV-OND-0045	North Dam Sections 1+60 to 1+85	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-26	HB+T-CIV-CIV-OND-0046	North Dam Sections 1+90 to 2+10	0	Dec. 3, 2010	Issued for Construction	Rev. A, Oct. 22, 2010		
DN-ND-27	HB+T-CIV-CIV-OND-0047	North Dam Thermosyphon Details	2	Feb. 9, 2011	Update Thermosyphon Layout	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-28	HB+T-CIV-CIV-OND-0048	North Dam Stake Out Coordinates for Instrument Clusters	0	Dec. 3, 2010	Issued for Construction			
DN-ND-29	HB+T-CIV-CIV-OND-0049	North Dam Percolation Test Borehole Locations	1	Feb. 4, 2011	Minor Text Edits	Rev. 0, Jan. 20, 2011		
DN-ND-30	HB+T-CIV-CIV-OND-0061	North Dam Additional Instrumentation Layout	0	Feb. 24, 2012	Issued for Construction	Rev. A, Feb. 10, 2012		
DN-ND-31	HB+T-CIV-CIV-OND-0062	North Dam Typical Additional Instrumentation Section and Details	1	Mar. 19, 2012	Edits to Details	Rev. 0, Feb. 24, 2012	Rev. A, Feb. 10, 2012	
DN-ND-32	HB+T-CIV-CIV-OND-0063	North Dam Ground Temperature Cable Details	0	Mar. 30, 2012	Issued for Construction			

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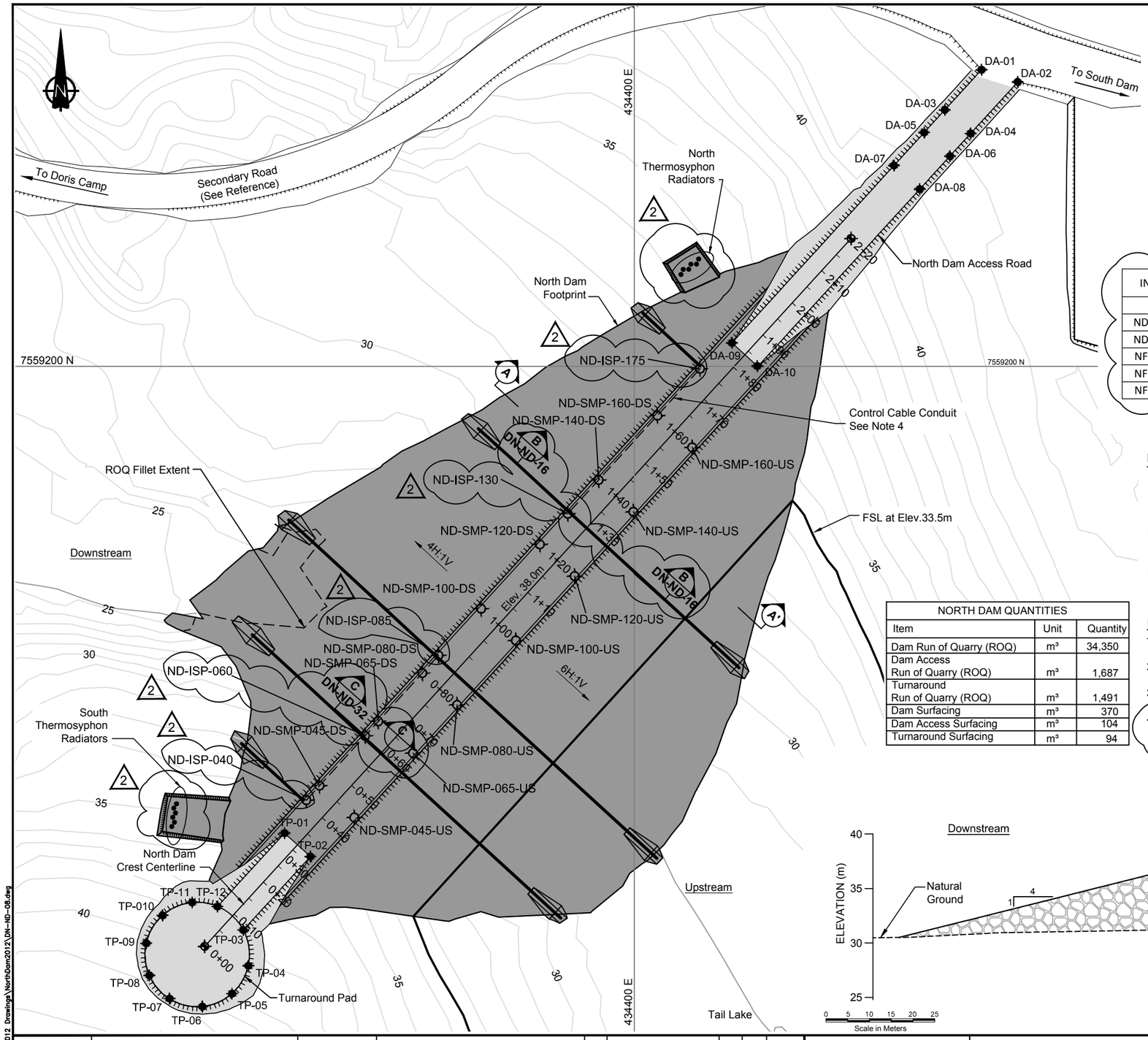
PROJECT NO: 1CH008.058
Revision 7
April 2, 2012
DN-ND-00 / HB+T-CIV-CIV-OND-0020



NORTH DAM TURNAROUND PAD STAKE OUT POINTS			
ID	NORTHING	EASTING	Elev. (m)
TP-01	7559092.84	434319.71	37.65
TP-02	7559087.48	434325.65	37.65
TP-03	7559070.62	434310.23	39.93
TP-04	7559062.43	434311.41	40.46
TP-05	7559056.03	434307.65	41.19
TP-06	7559053.06	434300.86	41.87
TP-07	7559054.87	434293.33	42.24
TP-08	7559060.20	434288.69	42.15
TP-09	7559067.58	434287.97	41.65
TP-10	7559073.98	434291.72	40.92
TP-11	7559076.95	434298.52	40.25
TP-12	7559076.01	434304.32	39.93

NORTH DAM ACCESS ROAD STAKE OUT POINTS			
ID	NORTHING	EASTING	Elev. (m)
DA-01	7559268.02	434479.67	44.80
DA-02	7559265.25	434487.98	44.94
DA-03	7559258.83	434471.26	44.29
DA-04	7559253.43	434477.17	44.29
DA-05	7559253.64	434466.52	43.87
DA-06	7559248.24	434472.42	43.87
DA-07	7559246.06	434459.59	43.16
DA-08	7559240.66	434465.49	43.16
DA-09	7559205.36	434422.40	37.65
DA-10	7559200.06	434428.21	37.65

NORTH DAM SURVEY MONITORING STAKE OUT POINTS			
ID	NORTHING	EASTING	Elev. (m)
ND-SMP-045-DS	7559103.73	434327.74	38.00
ND-SMP-065-DS	7559118.50	434341.22	38.00
ND-SMP-080-DS	7559129.58	434351.34	38.00
ND-SMP-100-DS	7559144.35	434364.82	38.00
ND-SMP-120-DS	7559159.12	434378.31	38.00
ND-SMP-140-DS	7559173.89	434391.80	38.00
ND-SMP-160-DS	7559188.66	434405.28	38.00
ND-SMP-045-US	7559096.45	434335.71	38.00
ND-SMP-065-US	7559111.22	434349.20	38.00
ND-SMP-080-US	7559122.30	434359.31	38.00
ND-SMP-100-US	7559137.07	434372.80	38.00
ND-SMP-120-US	7559151.84	434386.29	38.00
ND-SMP-140-US	7559166.61	434399.77	38.00
ND-SMP-160-US	7559181.38	434413.26	38.00

INSTRUMENTATION SUPPORT POST STAKEOUT POINTS			
ID	NORTHING	EASTING	Elev. (m)
ND-ISP-040	7559100.42	434324.71	38.00
ND-ISP-060	7559115.18	434338.20	38.00
NF-ISP-085	7559133.64	434355.05	38.00
NF-ISP-130	7559166.14	434384.71	38.00
NF-ISP-175	7559199.41	434415.06	38.00

REFERENCE

For detailed design of the Frozen Core Plant Pad and Secondary Road refer to Secondary Road from Doris Creek Bridge to South Dam 0+000 to 0+950, Doris North Project, Nunavut, Canada - TL-RDS-04 [HB+T-CIV-CIV-OND-0005] - Rev. 1 - Issued for Construction, Doris North Project, Nunavut, Canada. Sept 24, 2010 and Material Specifications, North Project, Nunavut, Canada - TL-RDS-11 [HB+T-CIV-CIV-OND-0012] - Rev. 1 - Issued for Construction, Doris North Project, Nunavut, Canada. Sept 24, 2010.

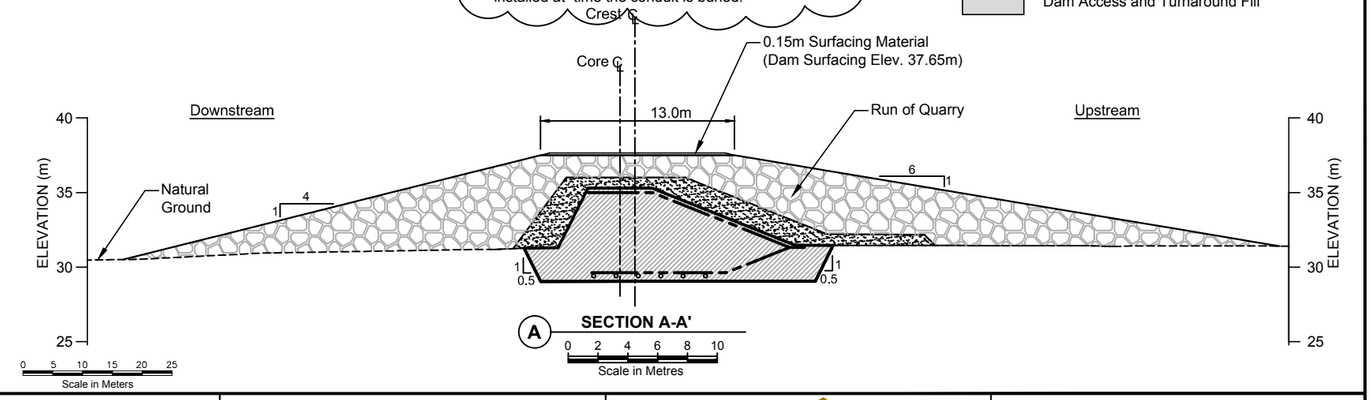
NORTH DAM QUANTITIES		
Item	Unit	Quantity
Dam Run of Quarry (ROQ)	m³	34,350
Dam Access Run of Quarry (ROQ)	m³	1,687
Turnaround Run of Quarry (ROQ)	m³	1,491
Dam Surfacing	m³	370
Dam Access Surfacing	m³	104
Turnaround Surfacing	m³	94

NOTES

1. For sections showing Instrumentation details, see drawing DN-ND-14 through DN-ND-16.
2. For cross sections spaced at every 5m., see drawings DN-ND-17 through DN-ND-26.
3. For survey monitoring point detail, see Detail E on drawing DN-ND-16.
4. Control Cable Conduit shall consist of sections of metal electrical conduit or steel pipe. Guide wire shall be installed at time the conduit is buried.

LEGEND

- Ground Temperature Cable Inside Pipe on Dam Shell
- Natural Ground
- Geosynthetic Clay Liner (GCL)
- Thermosyphon Evaporator Pipes
- Core Material
- Transition Material
- Run of Quarry (ROQ)
- Surfacing Material
- Grey Shading for Plan View
- Dam Access and Turnaround Fill



A SECTION A-A'

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
2	ADDITIONAL DETAILS	IM	EMR	02APR12
1	MINOR TEXT EDITS	LW	EMR	04FEB11
0	ISSUED FOR CONSTRUCTION	LW	EMR	03DEC10
A	ISSUED FOR REVIEW	LW	EMR	22OCT10

REVISIONS

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: EMR | DRAWN: VY/LR/NV/DC/AM | REVIEWED: EMR
CHECKED: IM | APPROVED: EMR | DATE: Apr. 2, 2012
FILE NAME: DN-ND-08.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

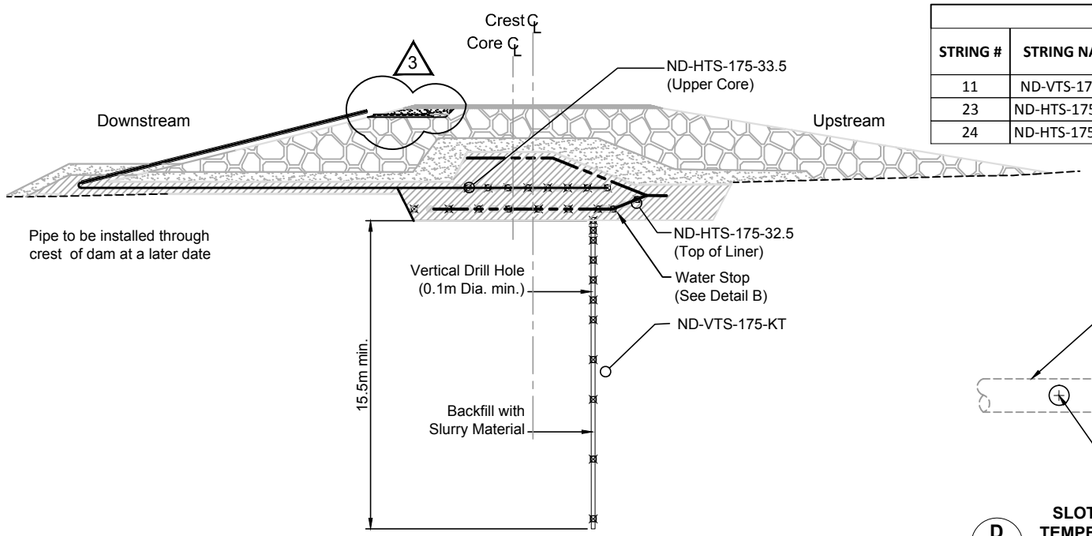
SRK JOB NO.: 1CH008.027 | SRK DWG NO.: DN-ND-08

Doris North Project

DRAWING TITLE: North Dam Shell Access Road and Turnaround Layout

NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0028 | SHEET 9 OF 33 | 2

J:\01_SITES\Hope Bay\LACAD\2012 Drawings\NorthDam2012\DN-ND-08.dwg



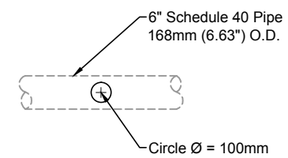
5 DN-ND-09 **GROUND TEMPERATURE CABLE SECTION AT CHAINAGE 1+75**

0 1.5 3 4.5 6 7.5
Scale in Meters

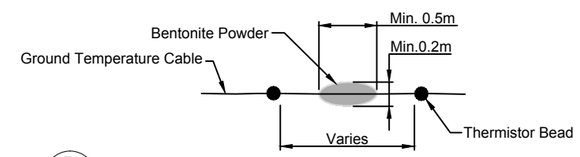
GROUND TEMPERATURE CABLE DETAILS																						
STRING #	STRING NAME	SERIES #	STRING TYPE	CHAINGE (m)	ELEVATION (m)	OVERALL CABLE LENGTH (m)	CABLE LOCATION	BEAD LOCATION IN METERS (MEASURED FROM END)														
								#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	#14	#15	#16
11	ND-VTS-175-KT	A	Vertical	175	n/a	65.0	Base of Keytrench	0.00	3.00	6.00	8.00	10.00	11.00	12.00	13.00	14.00	14.50	15.00	-	-	-	-	-
23	ND-HTS-175-32.5	G	Horizontal	175	32.5	52.0	Top of Liner	0.00	1.30	2.05	3.55	5.05	6.55	8.05	9.55	11.30	-	-	-	-	-	-	-
24	ND-HTS-175-33.5	C	Horizontal	175	33.5	49.0	Upper Core	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	-	-	-	-	-	-	-	-

LEGEND

- Ground Temperature Cable
- Thermistor Bead Location
- Bentonite Water Stop
- Natural ground
- Geosynthetic Clay Liner (GCL)
- Thermosyphon Evaporator Pipes
- Core Material
- Transition Material
- Run of Quarry (ROQ) Material
- Surfacing Material



D DN-ND-14 DN-ND-15 **SLOT FOR GROUND TEMPERATURE CABLE**
Not to Scale



B - **TYPICAL WATER STOP DETAIL**
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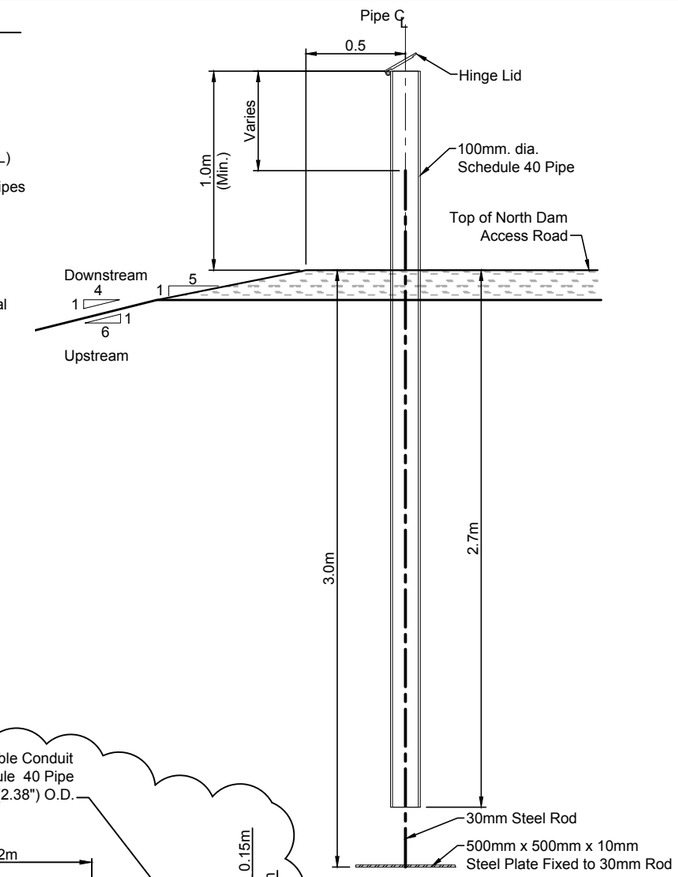
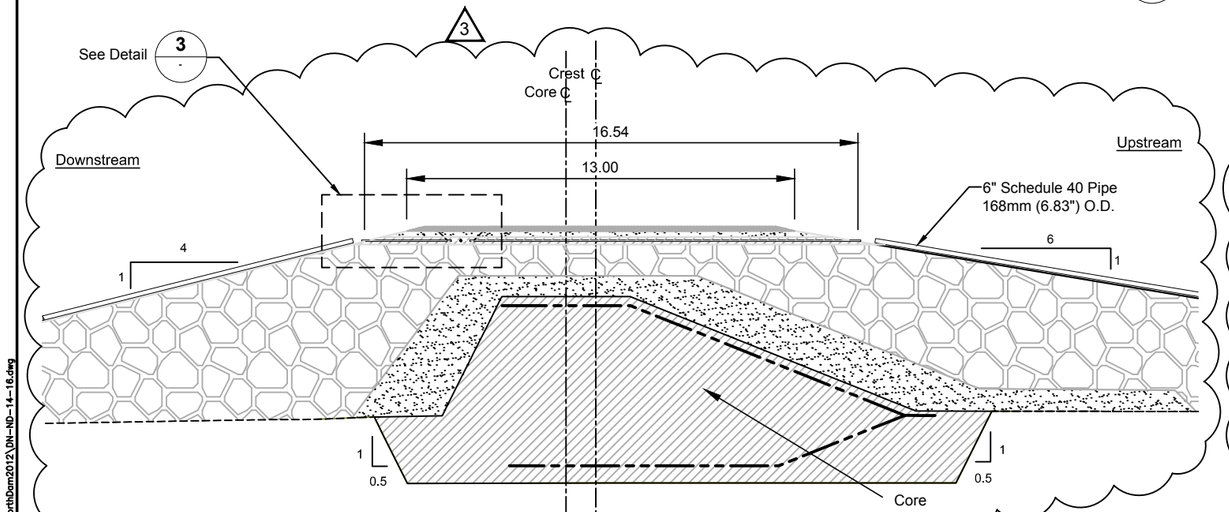


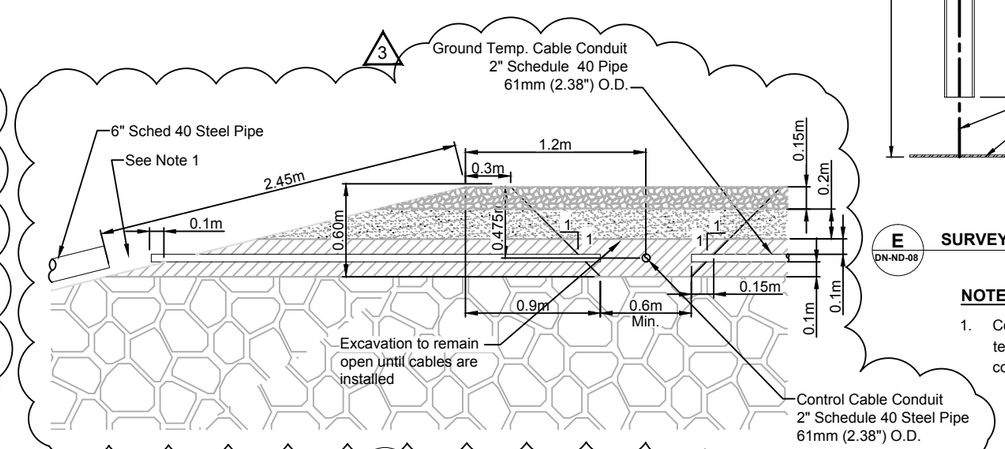
E DN-ND-08 **SURVEY MONITORING POINT DETAIL**
Not to Scale

NOTE

1. Contractor to cover exposed ground temperature cables with non-saturated core material.



B DN-ND-08 **TYPICAL SECTION**
Not to Scale



3 - **DETAIL - CONTROL CABLE CONDUIT**
Not to Scale

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
3	CHANGED DETAILS	IM	EMR	02APR12
2	MINOR EDITS	LW	EMR	31MAR11
1	MINOR TEXT EDITS	LW	EMR	04FEB11
0	ISSUED FOR CONSTRUCTION	LW	EMR	03DEC10
A	ISSUED FOR REVIEW	LW	EMR	23OCT10

REVISIONS

Original Drawings Stamped and Signed by Engineer

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PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: EMR | DRAWN: VY/LR/NV/DC/AM | REVIEWED: EMR
CHECKED: IM | APPROVED: EMR | DATE: Apr. 2, 2012
FILE NAME: DN-ND-14-16.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

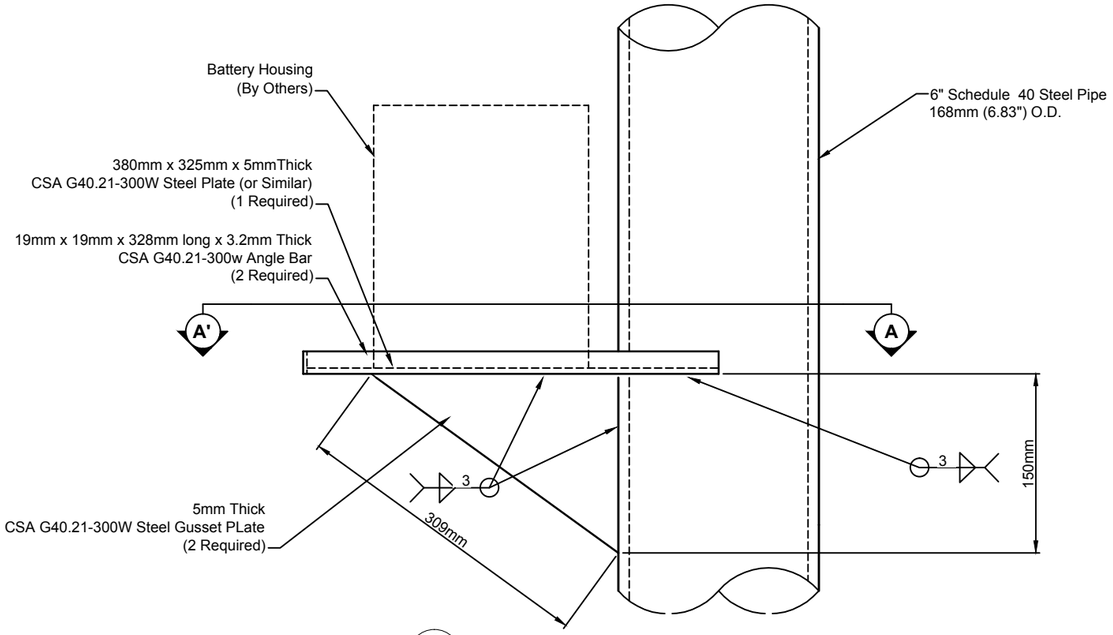
SRK JOB NO.: 1CH008.027 | SRK DWG NO.: DN-ND-16

Doris North Project

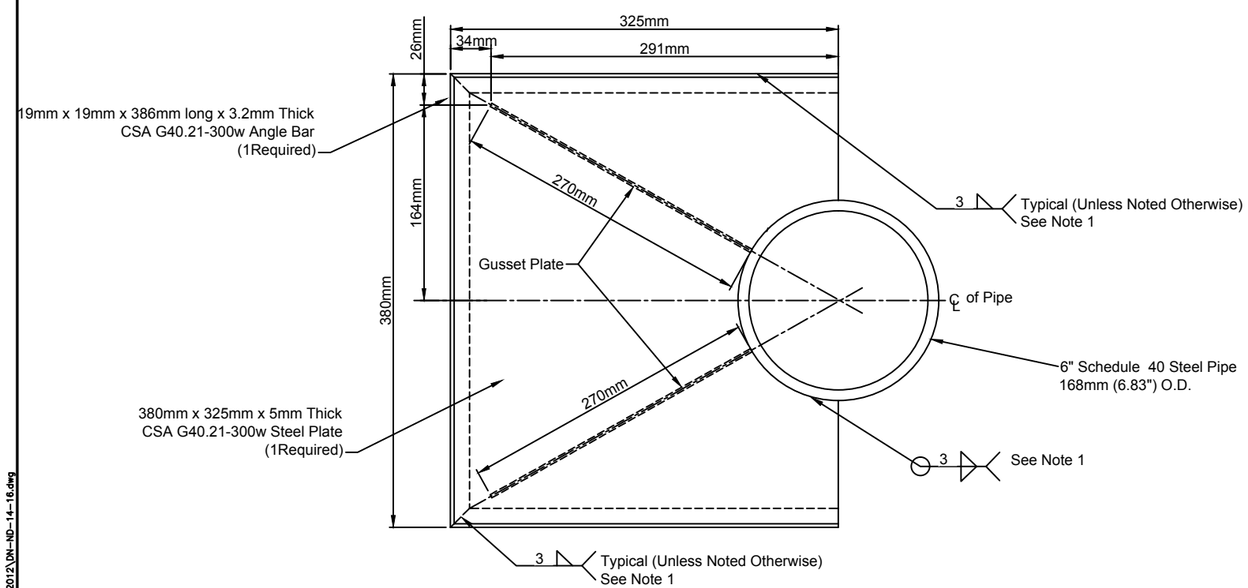
DRAWING TITLE: North Dam Ground Temperature Cable Clusters at Chainage 1+75

NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0036 | SHEET 17 OF 33 | 3

J:\01_SITES\Hope.Bay\ACAD\2012 Drawings\NorthDam2012\DN-ND-14-16.dwg



4 - DETAIL - BATTERY HOUSING SUPPORT
Not to Scale



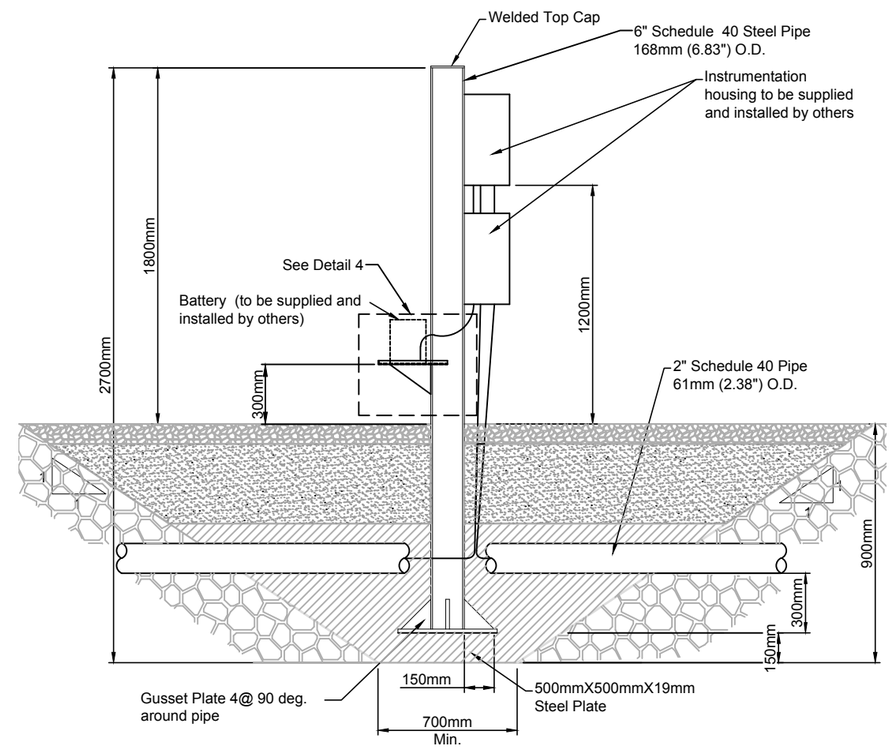
A - SECTION - BATTERY HOUSING SUPPORT
Not to Scale

LEGEND

- Ground Temperature Cable
- Core Material
- Transition Material
- Run of Quarry (ROQ) Material
- Surfacing Material

NOTES

1. For arc and resistance welding of the gussets and support plate to be in accordance of CSA standards W59 and W55.3, for all procedures and practices. Refer to CSA standard W48 [Clause 5.1.8 of CAN/CSA-S16-01 Limit States Design of Steel Structures] for welding electrodes.



C DN-ND-08 TYPICAL SECTION C-C'
Not to Scale

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS			

NO.	DESCRIPTION	CHK'D	APP'D	DATE
0	ISSUED FOR CONSTRUCTION	LW	EMR	02APR12
REVISIONS				

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CHECKED: LW	APPROVED: EMR	DATE: Apr. 2, 2012
FILE NAME: DN-ND-14-16.dwg		

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.027 SRK DWG NO.: DN-ND-32

Doris North Project

DRAWING TITLE: North Dam
Ground Temperature Cable Clusters
Details

NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0063

SHEET 33 OF 33

0

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Engineering Drawings for the Doris North Camp Area, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

SRK DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REV.	DATE	STATUS	OLD/REPLACED REVISIONS				
DN-DMC-00	HB+D-CIV-CIV-OND-0039	Engineering Drawings for Doris North Camp Area	18	Feb. 14, 2012	IFC	Rev. 17, Nov. 23, 2011	Rev. 16, Oct. 26, 2011	Rev. 15, Oct. 26, 2011	Rev. 14, Oct. 13, 2011	Rev. 13, Sep. 20, 2011
DN-DMC-01	HB+D-CIV-CIV-OND-0030	Doris North Camp Grading Plan (West Side)	3	Jun. 30, 2010	IFC	Rev. 2, Jun. 24, 2010	Rev. 1, Jun. 4, 2010	Rev. 0, May 26, 2010		
DN-DMC-02	HB+D-CIV-CIV-OND-0040	Doris North Camp Sections and Details (West Side)	1	Jun. 30, 2010	IFC	Rev. 0, Jun. 24, 2010	Rev. A, Jun. 4, 2010			
DN-DMC-03	HB+D-CIV-CIV-OND-0041	Doris North Camp Sections and Details (West Side)	1	Jun. 30, 2010	IFC	Rev. 0, Jun. 24, 2010	Rev. A, Jun. 4, 2010			
DN-DMC-04	HB+D-CIV-CIV-OND-0042	Doris North Camp Sections and Details (West Side)	1	Jun. 30, 2010	IFC	Rev. 0, Jun. 24, 2010	Rev. A, Jun. 13, 2010			
DN-DMC-05	HB+D-CIV-CIV-OND-0052	Material Specifications (West Side)	1	Jun. 30, 2010	IFC	Rev. 0, Jun. 24, 2010	Rev. A, Jun. 4, 2010			
DN-DMC-06	HB+D-CIV-CIV-OND-0048	Doris North Camp Grading Plan (East Side)	0	Jun. 24, 2010	IFC					
DN-DMC-07	HB+D-CIV-CIV-OND-0049	Doris North Camp Sections and Details (East Side)	0	Jun. 24, 2010	IFC					
DN-DMC-08	HB+D-CIV-CIV-OND-0050	Doris North Camp Sections and Details (East Side)	0	Jun. 24, 2010	IFC					
DN-DMC-09	HB+D-CIV-CIV-OND-0051	Material Specifications (East Side)	0	Jun. 24, 2010	IFC					
DN-DMC-010	HB+D-CIV-CIV-OND-0070	Sedimentation and Pollution Control Ponds Grading Plan	1	Jun. 20, 2011	IFC	Rev. 0, Sep. 29, 2010	Rev. A, Jul. 28, 2010			
DN-DMC-011	HB+D-CIV-CIV-OND-0071	Sedimentation and Pollution Control Ponds Sections	2	Jun. 20, 2011	IFC	Rev. 1, Feb. 14, 2011	Rev. 0, Sep. 29, 2010	Rev. A, Jul. 28, 2010		
DN-DMC-012	HB+D-CIV-CIV-OND-0072	Float Plane Dock Access Road and Dyke Profiles	0	Sep. 29, 2010	IFC	Rev. A, Jul. 28, 2010				
DN-DMC-013	HB+D-CIV-CIV-OND-0073	Material Specifications (Sedimentation & Pollution Control Ponds)	2	Jun. 09, 2011	IFC	Rev. 1, Feb. 14, 2011	Rev. 1, Feb. 14, 2011	Rev. 0, Sep. 29, 2010	Rev. A, Jul. 28, 2010	
DN-DMC-014	HB+D-CIV-CIV-OND-0080	Sedimentation and Pollution Control Ponds Typical Details	1	Jun. 20, 2011	IFC	Rev. 0, Sep. 29, 2010	Rev. A, Jul. 28, 2010			
DN-DMC-015	HB+D-CIV-CIV-OND-0082	Pad R - Raised Access Ramp	1	Aug. 08, 2010	IFC					
DN-DMC-016	HB+D-CIV-CIV-OND-0088	Pollution Control Pond Surfaces 1 and 2	0	Sep. 29, 2010	IFC					
DN-DMC-017	HB+D-CIV-CIV-OND-0089	Pollution Control Pond Surfaces 3 and 4	0	Sep. 29, 2010	IFC					
DN-DMC-018	HB+D-CIV-CIV-OND-0091	Pad C Expansion	0	Sep. 8, 2010	IFC					
DN-DMC-019	HB+D-CIV-CIV-OND-0109	Doris North Access Road General Arrangement	0	Sep. 24, 2010	IFC					
DN-DMC-020	HB+D-CIV-CIV-OND-0110	Doris North Access Road Profiles	0	Sep. 24, 2010	IFC					
DN-DMC-021	HB+D-CIV-CIV-OND-0111	Doris North Access Road Sections and Details Sheet 1 of 2	0	Sep. 24, 2010	IFC					
DN-DMC-022	HB+D-CIV-CIV-OND-0112	Doris North Access Road Sections and Details Sheet 2 of 2	0	Sep. 24, 2010	IFC					
DN-DMC-023	HB+D-CIV-CIV-OND-0113	Material Specifications (Doris North Access Road)	0	Sep. 24, 2010	IFC					
DN-DMC-024	HB+D-CIV-CIV-OND-0120	Diversion Berm General Arrangement	0	Apr. 7, 2011	IFC	Rev. A, Mar. 21, 2011				
DN-DMC-025	HB+D-CIV-CIV-OND-0121	Diversion Berm Section and Details	0	Apr. 7, 2011	IFC	Rev. A, Mar. 21, 2011				
DN-DMC-026	HB+D-CIV-CIV-OND-0122	Material Specifications	-	-	Removed	Rev. A, Mar. 21, 2011				
DN-DMC-027	HB+D-CIV-CIV-OND-0123	Doris North Diversion Berm Sections	0	Apr. 7, 2011	IFC	Rev. A, Mar. 21, 2011				
DN-DMC-028	HB+D-CIV-CIV-OND-0124	Sedimentation Pond Surface 1 and 2	0	Jun. 09, 2011	IFC					
DN-DMC-029	HB+D-CIV-CIV-OND-0125	Sedimentation Pond Surface 3 and 4	0	Jun. 09, 2011	IFC					
DN-DMC-030	HB+D-CIV-CIV-OND-0126	Pad Q Expansion General Arrangement	0	Jun. 13, 2011	IFC					
DN-DMC-031	HB+D-CIV-CIV-OND-0127	Pad Q Expansion Sections	0	Jun. 13, 2011	IFC					
DN-DMC-032	HB+D-CIV-CIV-OND-0140	Existing Sedimentation and Pollution Pond General Arrangement	1	Nov. 23, 2011	IFC	Rev. 0, Aug. 19, 2011				
DN-DMC-033	HB+D-CIV-CIV-OND-0141	Pollution Pond Upgrade - Final Backfilled Surface	1	Oct. 26, 2011	IFC	Rev. 0, Aug. 19, 2011				
DN-DMC-034	HB+D-CIV-CIV-OND-0142	Pollution Pond Upgrade - Excavation Surface	0	Aug. 19, 2011	IFC					
DN-DMC-035	HB+D-CIV-CIV-OND-0143	Pollution Pond Excavation Sections	0	Aug. 19, 2011	IFC					
DN-DMC-036	HB+D-CIV-CIV-OND-0144	Pollution Pond Upgrade - Liner Extension Surface	0	Aug. 19, 2011	IFC					
DN-DMC-037	HB+D-CIV-CIV-OND-0145	Pollution Pond Upgrade - Overliner (Crush) Surface	0	Aug. 19, 2011	IFC					
DN-DMC-038	HB+D-CIV-CIV-OND-0146	Pollution Pond Upgrade - Final Surface w. Stake Out Points	0	Aug. 19, 2011	IFC					
DN-DMC-039	HB+D-CIV-CIV-OND-0147	Pollution Pond Sections & Details w. Liner Installed and Backfilled	1	Oct. 26, 2011	IFC	Rev. 0, Aug. 19, 2011				
DN-DMC-040	HB+D-CIV-CIV-OND-0148	Pollution Pond Stake Out Point Tables	0	Aug. 19, 2011	IFC					
DN-DMC-041	HB+D-CIV-CIV-OND-0149	Sedimentation Pond Upgrade - Final Surface	1	Oct. 26, 2011	IFC	Rev. 0, Aug. 25, 2011				
DN-DMC-042	HB+D-CIV-CIV-OND-0150	Sedimentation Pond Upgrade - Excavation Surface	0	Aug. 25, 2011	IFC					
DN-DMC-043	HB+D-CIV-CIV-OND-0151	Sedimentation Pond Upgrade - Liner Surface	0	Aug. 25, 2011	IFC					
DN-DMC-044	HB+D-CIV-CIV-OND-0152	Sedimentation Pond Sections and Details	1	Oct. 26, 2011	IFC	Rev. 0, Aug. 25, 2011				
DN-DMC-045	HB+D-CIV-CIV-OND-0153	Doris Camp Sump Locations	0	Aug. 26, 2011	IFC					
DN-DMC-046	HB+D-CIV-CIV-OND-0154	Doris Camp Sump Section and Details	1	Oct. 13, 2011	IFC	Rev. 0, Sept. 20, 2011	Rev. A, Aug. 26, 2011			
DN-DMC-047	HB+D-CIV-CIV-OND-0163	Ground Temperature Cable Section and Details	0	Feb. 14, 2012	IFC	Rev. A, Nov. 23, 2011				

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PROJECT NO: 1CH008.033
ISSUED FOR CONSTRUCTION
Revision 18, February 14, 2012
DN-DMC-00 / HB+D-CIV-CIV-OND-0039

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LEGEND

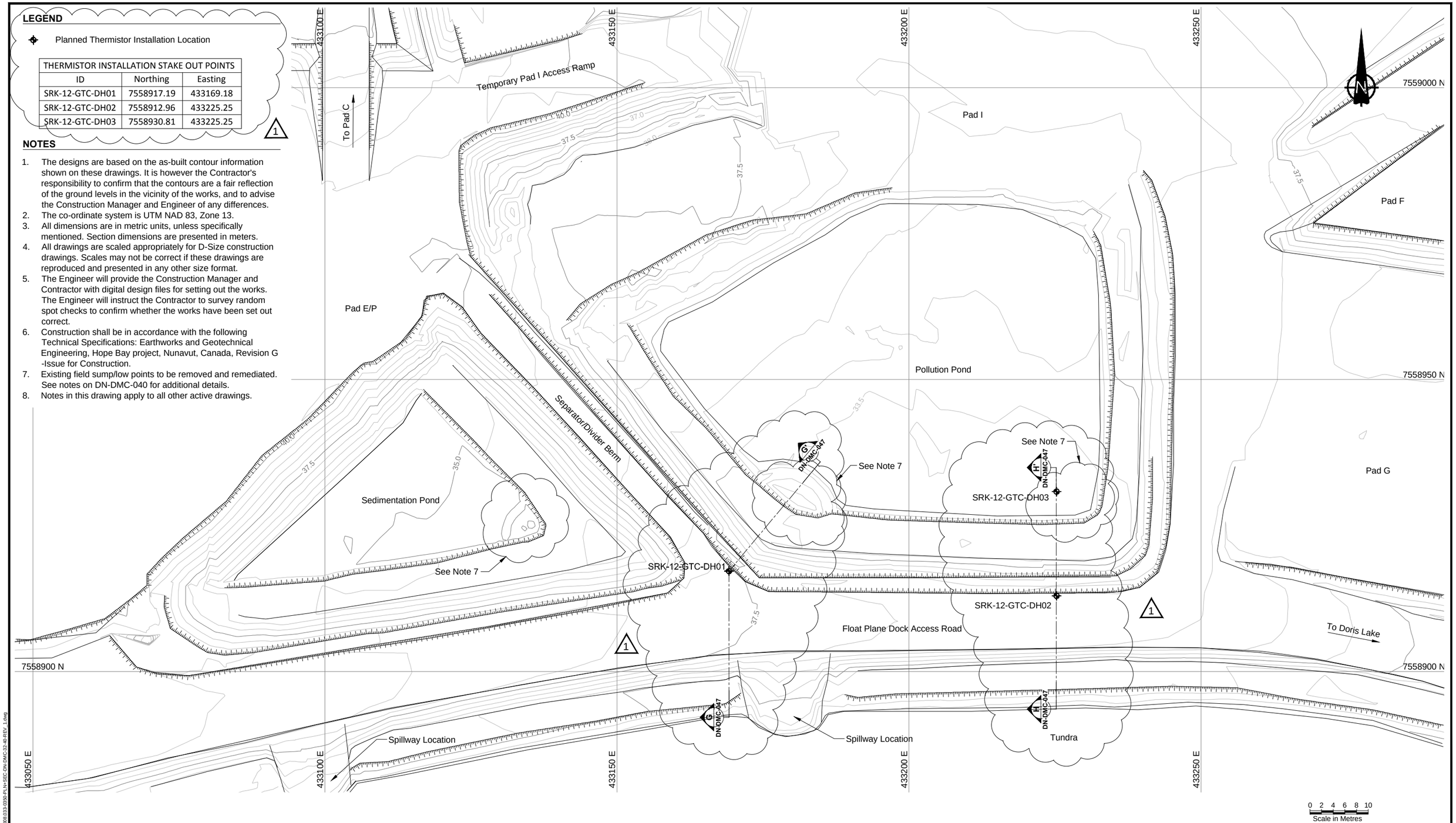
Planned Thermistor Installation Location

THERMISTOR INSTALLATION STAKE OUT POINTS		
ID	Northing	Easting
SRK-12-GTC-DH01	7558917.19	433169.18
SRK-12-GTC-DH02	7558912.96	433225.25
SRK-12-GTC-DH03	7558930.81	433225.25

1

NOTES

1. The designs are based on the as-built contour information shown on these drawings. It is however the Contractor's responsibility to confirm that the contours are a fair reflection of the ground levels in the vicinity of the works, and to advise the Construction Manager and Engineer of any differences.
2. The co-ordinate system is UTM NAD 83, Zone 13.
3. All dimensions are in metric units, unless specifically mentioned. Section dimensions are presented in meters.
4. All drawings are scaled appropriately for D-Size construction drawings. Scales may not be correct if these drawings are reproduced and presented in any other size format.
5. The Engineer will provide the Construction Manager and Contractor with digital design files for setting out the works. The Engineer will instruct the Contractor to survey random spot checks to confirm whether the works have been set out correct.
6. Construction shall be in accordance with the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay project, Nunavut, Canada, Revision G -Issue for Construction.
7. Existing field sump/low points to be removed and remediated. See notes on DN-DMC-040 for additional details.
8. Notes in this drawing apply to all other active drawings.



DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
1	GROUND TEMPERATURE CABLE	LW	EMR	23NOV11
0	ISSUED FOR CONSTRUCTION	JBK	EMR	19AUG11

REVISIONS

Original Drawings Stamped and Signed by Engineer

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PROFESSIONAL ENGINEERS STAMP

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DESIGN: LW | DRAWN: NV | REVIEWED: EMR
CHECKED: LW | APPROVED: EMR | DATE: Nov. 23, 2011
FILE NAME: 1CH008.033-0350-PLN+SEC-DN-DMC-32-40-REV_1.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033 | SRK DWG NO.: DN-DMC-032

DORIS NORTH PROJECT

DRAWING TITLE: Existing Sedimentation and Pollution Pond General Arrangement

DRAWING NO. HB+D-CIV-CIV-OND-0140 | SHEET 34 OF 48 | REVISION NO. 1

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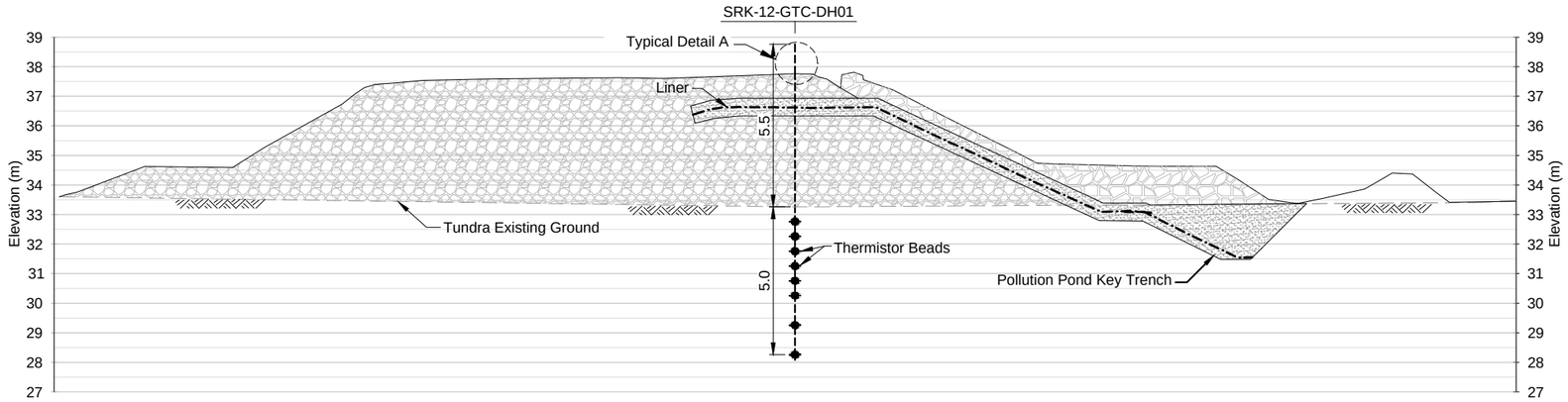
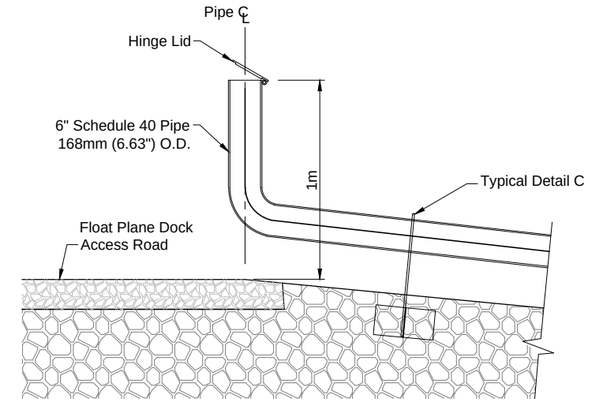


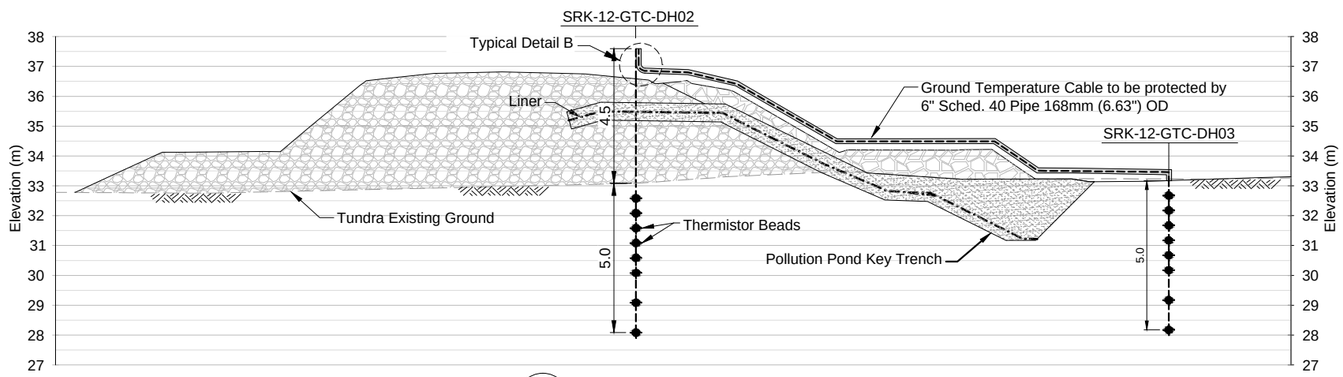
G DN-DMC-032 **SECTION G - G'**

0 1 2 3 4 5
Scale in Metres



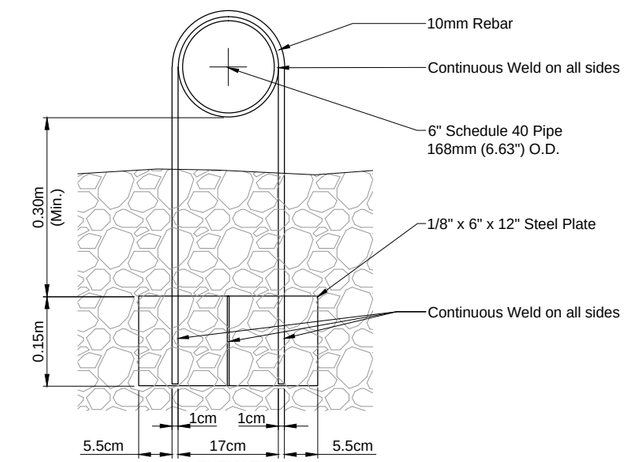
B - **SRK-12-GTC-DH02 & SRK-12-GTC-DH03 TERMINATION DETAIL**

Not to Scale

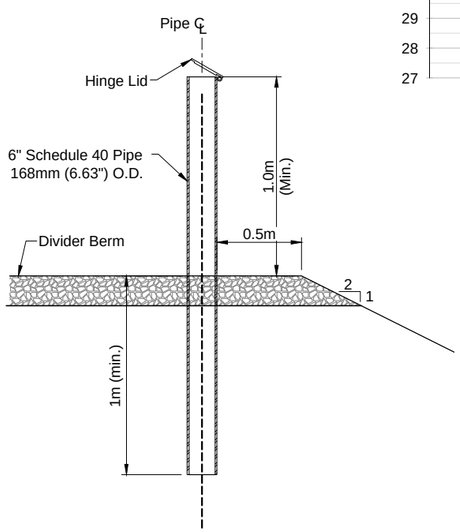


H DN-DMC-032 **SECTION H - H'**

0 1 2 3 4 5
Scale in Metres

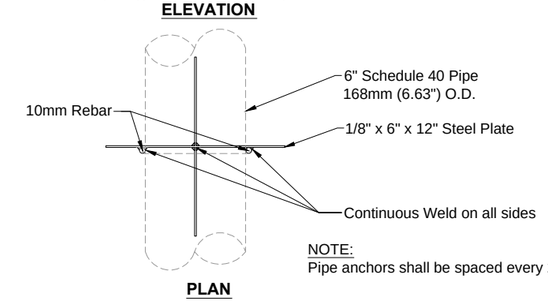


ELEVATION



A - **SRK-12-GTC-DH01 TERMINATION DETAIL**

Not to Scale



NOTE:
Pipe anchors shall be spaced every 2m.

PLAN

C - **PIPE ANCHOR TYPICAL DETAIL**

Not to Scale

GROUND TEMPERATURE CABLE DETAILS:

String Name	Installation Ground Elevation (m)	Overall Cable Length (m)	Bead Location in Metres (measured from end)							
			#1	#2	#3	#4	#5	#6	#7	#8
SRK-12-GTC-DH01	37.75	10.50	6.0	6.50	7.0	7.5	8.0	8.5	9.5	10.5
SRK-12-GTC-DH02	37.58	9.50	5.0	5.5	6.0	6.5	7.0	7.5	8.5	9.5
SRK-12-GTC-DH03	37.58	24.50	20.0	20.5	21.0	21.5	22.0	22.5	23.5	24.5

LEGEND

- 3/4" Crush Material
- Bentonite Chips
- Rip Rap
- Run of Quarry Material
- Liner System
- Existing HDPE Liner
- HDPE Liner Extension
- Non-Woven Geotextile
- Ground Temperature Cable
- Thermistor Bead Location

NOTE

1. Ground temperature cables shall be RST Type TH0021 with VW2106-LC 19 Pin Connector and cap to be read by an RST TH2016 Thermistor Readout.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
0	ISSUED FOR CONSTRUCTION	LW	EMR	14FEB12
A	ISSUED FOR REVIEW	LW	EMR	23NOV11

REVISIONS

Original Drawings Stamped and Signed by Engineer

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PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW | DRAWN: NV | REVIEWED: EMR
CHECKED: LW | APPROVED: EMR | DATE: Feb. 14, 2011

FILE NAME: 1CH008.033-0350-PLN+SEC-DN-DMC-32-40-REV_1.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033 | SRK DWG NO.: DN-DMC-047

DORIS NORTH PROJECT

DRAWING TITLE: Ground Temperature Cable Sections and Details

DRAWING NO. HB+D-CIV-CIV-OND-0163 | SHEET 48 OF 48 | REVISION NO. 0

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