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Memo

To:	Chris Hanks	**Date:**	May 11, 2011
Company:	HBML	**From:**	Kelly Sexsmith
Copy to:		**Project #:**	1CH008.043.3600
Subject:	Formal SRK Responses to KIA Requests		

SRK has prepared this memo in response to questions and comments by the Kitikmeot Inuit Association (KIA) on the "Hope Bay Doris North Waste Rock and Ore Management Plan" dated December 2010. The original comments by KIA and SRKs responses are provided below.

KIA Question #1: *Construction details (preferably "as-built" drawing) regarding the pollution control system, i.e., the waste rock and ore storage pads, and the sedimentation and pollution control ponds. These details would provide clarity regarding the adequacy and effectiveness of the system, such as, for example, the exchange between the sedimentation pond and the pollution control pond, the extent of coverage of the HDPE liner, etc., etc.*

SRK response: The IFC Drawings for the Sedimentation and Pollution Control Ponds as well as the waste rock storage pads are provided in Attachment 1. There are separate documents detailing both interim and operational water management plans for the site. Any comments on the design or operation of those facilities are should be provided in the context of the Water Management Plans.

KIA Question #2: *An estimate is requested regarding the maximum storage capacity of the waste rock pad based on maintaining stable slopes.*

SRK response: The expected volume of waste rock that is expected to be stored in the waste rock piles is 530,000 tonnes, including an allowance for the 30,000 tonnes of waste rock that will be displaced from use as backfill by cyanide residues. There is an additional contingency of 50,000 tonnes provided to address any small changes in the mine plans. The storage capacity of the pile, as shown in Figure 5c, is 601,000 tonnes. A five metre increase in height is possible in the eastern side of the pile, and could provide another 18,000 tonnes, or maximum storage capacity of 619,000 tonnes.

The storage capacities are based on an overall final slope angle of 2H:1V. A technical memo documenting the pile stability analysis for the 619,000 tonne pile configuration is provided in Attachment 2.

KIA Question #3: *Details and justification are needed regarding the characterization, classification and segregation of waste rock. More specifically:*

a. *The proposed two categories (mineralized and non-mineralized rock) to classify waste rock do not necessarily correspond to PAG and Non-PAG rock*
b. *Will visual inspection, based on presence of sulphides, be sufficient to adequately characterize the waste rock?*
c. *No specific testing was proposed to be carried out on waste rock material designated for use in construction. The material needs be assessed for metal leaching potential, and the environmental impacts of the soluble metals species must be considered.*

SRK Response: SRK presented an up-to-date summary of the geochemical characterization data available for the Doris North waste rock in Section 2.5.1 and Appendix 1 of the waste rock management plan. This

includes a statistical summary of critical ABA parameters according to the proposed management units, some key findings on carbonate mineralogy from the mineralogical testing, and some key findings on sulphate and metal release rates from the kinetic testing. HBML plans to issue a complete update on this testwork with the upcoming Amendment 3 package. In the interim, a meeting was held between HBML, KIA, BGC (KIAs technical consultant), and SRK on various aspects of the Hope Bay project. Key findings of the waste rock characterization programs were presented and discussed during the meeting, and KIA were provided with an opportunity to ask further questions. With respect to the specific comments provided by KIA prior to that meeting, we are providing the following responses:

a: In developing the Waste Rock Management Plan, SRK has recommended a more conservative segregation criteria that not only recognizes the ARD potential of the rock, but also the potential for increased risk of sulphate and metal leaching in non-PAG rocks that contain elevated levels of both sulphide and carbonate. Based on the segregation criteria proposed in the management plan, all of the "non-mineralized" rock is expected to be non-PAG with low (<0.5%)[1] sulphide concentrations, while the "mineralized" rock is expected to include: 1) any rock with >0.5% sulphides, regardless of ARD potential, 2) any rock that is not spatially abundant, and therefore not well characterized or understood (e.g. the gabbro), and 3) any rock that is located in the alteration zones that surround the ore, regardless of actual sulphide content or ARD potential due to the anticipated challenges of separating rock in this area. Therefore, the "mineralized" rock will include all of the PAG and non-PAG material with "elevated" sulphides. This degree of conservatism is appropriate given that there is more than excess capacity for all of the mineralized rock to be backfilled in the underground mine.

Additionally, the segregation plan takes considers the characteristics of each of the major rock units, and is only proposed for units that are well characterized and that consistently contain large amounts of NP, such as the basalt and the buffer zone material (also basalt). The high NP content ensures that even if the segregation was not complete, there would still be an extremely low risk of ARD. The characteristics of the diabase are very uniform as would be expected for an intrusive volcanic that post-dates the mineralization that is associated with the gold deposits, and therefore segregated as non-mineralized on the basis of rock type (but with visual inspections to confirm rock type and low sulphide content). The gabbro and any other minor rock units that have had more limited testing (for example other types of mafic dykes), are being handled as mineralized rock due to limited information and/or lower NP content.

b: Visual inspection has been proposed as the primary screening method for segregating the waste rock into mineralized and non-mineralized storage areas on the pile. The inspection will include both rock type and sulphide content. The geologists have been further instructed to classify rock as "mineralized" if there are any doubts as to their ability to see or estimate the abundance of sulphides. However, HBML would like to emphasize that samples are also being collected at a minimum frequency of one sample per 5,000 tonnes for acid-base accounting (ABA) testing, with additional samples providing a sampling density of one sample per 1,000 tonnes for total inorganic carbon (TIC) and total sulphur content in units that have a higher degree of variability such as basalt or alteration zone material. The final destination of these materials in the dump is also being tracked so that the laboratory results can be directly tied to specific locations within the non-mineralized area of the pile.

The laboratory results are closely reviewed on receipt and are being used to assess the accuracy of the visual determinations. Once sufficient data are available for samples representing a variety of rock types, HBML will assess the accuracy of the visual methods, and may propose further changes in the sampling plans. However, in the current plan, the laboratory data will be the primary basis for assessing whether the non-mineralized rock can be used in construction. If the segregation programs do not prove to be effective, and the non-mineralized rock does not meet the criteria considered acceptable for construction, then it will remain in the waste rock stockpile area until backfilling commences. In the event that small amounts of mineralized rock remain within the non-mineralized area of the pile at closure, the abundance of carbonate minerals present in all of the basalt rock units that would surround these materials is expected to provide an appropriate level of

[1] Note that this corresponds to 0.25% sulphur content, or an acid potential of <8 kg $CaCO_3$ eq/tonne.

control for long term metal leaching and/or ARD issues. It is also likely that permafrost will aggrade into the rock, which would provide an additional level of control for these processes.

The assumption that visual methods would be an appropriate means of segregating the rock is based on correlations between observations of sulphides in the geological logs and corresponding test results in data from recent construction characterization programs (SRK 2010a-d) in which the site geologists were asked to pay particular attention to the visual estimates. As shown in Figure 1, samples with higher sulphur values based on laboratory testing corresponded to observations of more than trace amounts of pyrite.

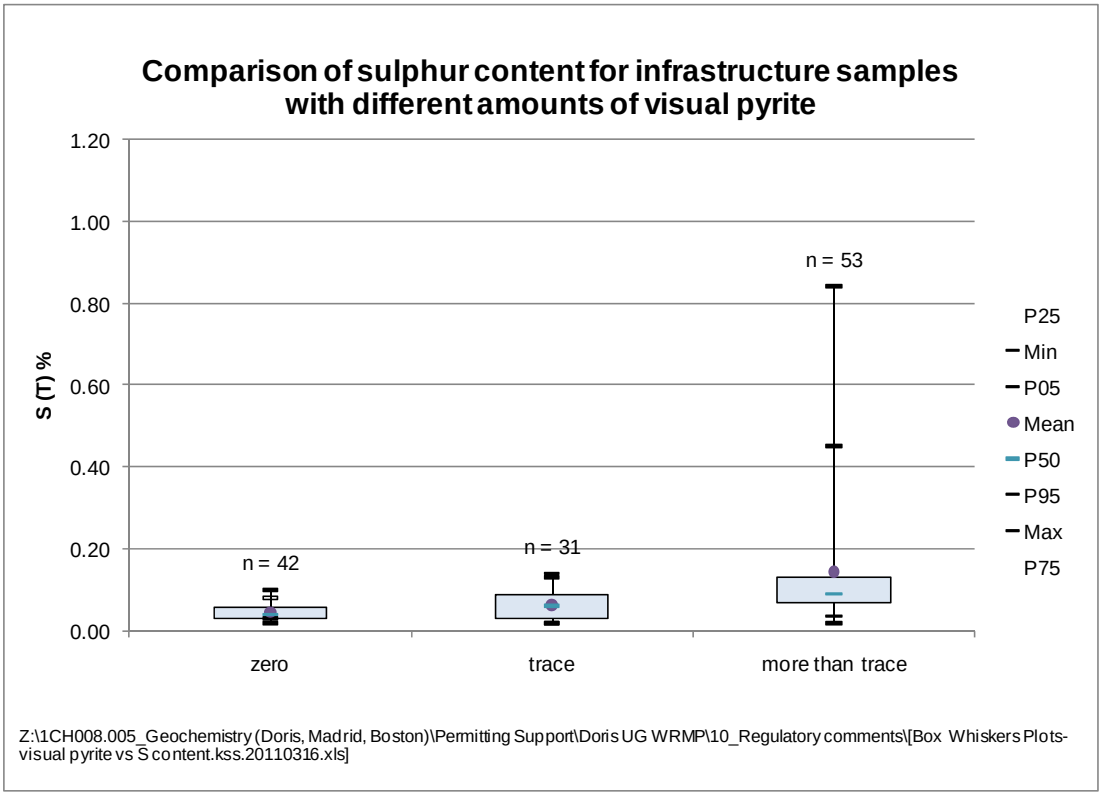

Figure 1: Comparison of sulphur content for infrastructure samples with different amounts of visual pyrite

c: Specific testing of the material designated for use in construction has been proposed in the Waste Rock Management Plan. Section 3.3.3 describes the confirmatory testing programs and the criteria that will be used to establish whether the waste rock is suitable for use in construction. Section 5.3.2 described the additional testing that would be completed following construction. Section 2.5.1 describes the characterization testing that was completed on waste rock from the underground mining area prior to mining.

The confirmatory testing programs include acid base accounting tests (as described under response b and in the plan) and shake flask extraction tests to characterize the soluble sulphate and metal content of the rock, as well as any residual nutrients from blasting.

The pre-development characterization programs include kinetic testing and field barrel tests to characterize the soluble metal content. Rates of metal leaching in kinetic test samples with less than 0.5% sulphide are comparable to that of the quarry rock that is currently being used in construction (SRK 2007).

KIA Question #4: *Details are needed regarding the projected volumes and proportions of the different waste rock management units (i.e., mineralized and non-mineralized waste rock). What is the contingency plan if there is excess "mineralized" waste rock (i.e., exceeding backfill capacity) when backfilling begins?*

SRK Response: On the basis of rock type and the available laboratory testing data, the proportions of mineralized and non-mineralized waste rock have been estimated and used to estimate the relative quantities of mineralized and non-mineralized rock from the underground mine. The estimates, shown in Attachment 3, indicate that there would be approximately 343,000 tonnes of non-mineralized rock and 163,000 tonnes of mineralized rock[2]. Given that there is capacity to backfill 370,000 tonnes of waste rock in the underground mine, there should be more than sufficient capacity to backfill all of the mineralized rock, even if there is some conservatism in the segregation procedures (i.e. leading to more non-mineralized rock in the mineralized pile). For example, even if twice as much basalt and buffer zone material was classified as mineralized, there would still be an excess of 176,000 tonnes of backfill capacity remaining in the mine.

KIA Question #5: *Clarification and details are requested regarding whether HBML is designing the pollution control system to withstand 1:100 year 24-hour duration storms, or 1:25 year 24-hour duration storms.*

SRK response: Information on the design criteria for the water management facilities is provided in the water management plans. A separate response will be provided to address this comment.

References:

SRK Consulting, 2010a. Geochemical Characterization and Recommendations for Portal Face-Off Area Construction Rock, Doris North, Hope Bay Project, April 22, 2010.

SRK Consulting, 2010b. Geochemical Characterization and Recommendations for Doris North Fuel Tank Farm and Mill Pad, Doris North, Hope Bay Project, April 23, 2010.

SRK Consulting, 2010c. Geochemical Characterization and Recommendations for Roberts Bay Fuel Tank Farm, Doris North, Hope Bay Project, April 23, 2010.

SRK Consulting, 2010d. Geochemical Characterization and Recommendations for Quarry 5, Doris North, Hope Bay Project. Memo dated June 8, 2010.

SRK Consulting, 2007. Geochemical Characterization of Quarry Materials, Doris North Project, Hope Bay, Nunavut, Canada (Revised March 2007). Prepared for Miramar Hope Bay Ltd., March 2007.

[2] Note that these volumes reflect the total expected underground waste production figures, as opposed to the peak waste rock storage quantities that take backfilling into consideration.

Attachment 1 – IFC Drawings

Appendix B2-1
Engineering Drawings for the Doris North Camp Area

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

ACTIVE DRAWING STATUS

SRK DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS		
DN-DMC-00	HB+D-CIV-CIV-OND-0039	Engineering Drawings for Doris North Camp Area	4	September 29, 2010	Issued for Construction	Rev. 3, June 30, 2010	Rev. 0, June 24, 2010	Rev. A, June 4, 2010
DN-DMC-01	HB+D-CIV-CIV-OND-0030	Doris North Camp Grading Plan (West Side)	3	June 30, 2010	Issued for Construction	Rev. 2, June 24, 2010	Rev. 1, June 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	June 30, 2010	Issued for Construction	Rev. 0, June 24, 2010	Rev. A, June 4, 2010	
DN-DMC-03	HB+D-CIV-CIV-OND-0041	Doris North Camp Sections and Details (West Side)	1	June 30, 2010	Issued for Construction	Rev. 0, June 24, 2010	Rev. A, June 4, 2010	
DN-DMC-04	HB+D-CIV-CIV-OND-0042	Doris North Camp Sections and Details (West Side)	1	June 30, 2010	Issued for Construction	Rev. 0, June 24, 2010	Rev. A, June 13, 2010	
DN-DMC-05	HB+D-CIV-CIV-OND-0052	Material Specifications (West Side)	1	June 30, 2010	Issued for Construction	Rev. 0, June 24, 2010	Rev. A, June 4, 2010	
DN-DMC-06	HB+D-CIV-CIV-OND-0048	Doris North Camp Grading Plan (East Side)	0	June 24, 2010	Issued for Construction			
DN-DMC-07	HB+D-CIV-CIV-OND-0049	Doris North Camp Sections and Details (East Side)	0	June 24, 2010	Issued for Construction			
DN-DMC-08	HB+D-CIV-CIV-OND-0050	Doris North Camp Sections and Details (East Side)	0	June 24, 2010	Issued for Construction			
DN-DMC-09	HB+D-CIV-CIV-OND-0051	Material Specifications (East Side)	0	June 24, 2010	Issued for Construction			
DN-DMC-010	HB+D-CIV-CIV-OND-0070	Sedimentation and Pollution Control Ponds Grading Plan	0	September 29, 2010	Issued for Construction	Rev. A, July 28, 2010		
DN-DMC-011	HB+D-CIV-CIV-OND-0071	Sedimentation and Pollution Control Ponds Sections	0	September 29, 2010	Issued for Construction	Rev. A, July 28, 2010		
DN-DMC-012	HB+D-CIV-CIV-OND-0072	Float Plane Dock Access Road and Dyke Profiles	0	September 29, 2010	Issued for Construction	Rev. A, July 28, 2010		
DN-DMC-013	HB+D-CIV-CIV-OND-0073	Material Specifications (Sedimentation & Pollution Control Ponds)	0	September 29, 2010	Issued for Construction	Rev. A, July 28, 2010		
DN-DMC-014	HB+D-CIV-CIV-OND-0080	Sedimentation and Pollution Control Ponds Typical Details	0	September 29, 2010	Issued for Construction	Rev. A, July 28, 2010		
DN-DMC-015	HB+D-CIV-CIV-OND-0082	Pad R - Raised Access Ramp	1	August 08, 2010	Issued for Construction			
DN-DMC-016	HB+D-CIV-CIV-OND-0088	Pollution Control Pond Surfaces 1 and 2	0	September 29, 2010	Issued for Construction			
DN-DMC-017	HB+D-CIV-CIV-OND-0089	Pollution Control Pond Surfaces 3 and 4	0	September 29, 2010	Issued for Construction			
DN-DMC-018	HB+D-CIV-CIV-OND-0091	Pad C Expansion	0	September 8, 2010	Issued for Construction			
DN-DMC-019	HB+D-CIV-CIV-OND-0109	Doris North Access Road General Arrangement	0	September 24, 2010	Issued for Construction			
DN-DMC-020	HB+D-CIV-CIV-OND-0110	Doris North Access Road Profiles	0	September 24, 2010	Issued for Construction			
DN-DMC-021	HB+D-CIV-CIV-OND-0111	Doris North Access Road Sections and Details Sheet 1 of 2	0	September 24, 2010	Issued for Construction			
DN-DMC-022	HB+D-CIV-CIV-OND-0112	Doris North Access Road Sections and Details Sheet 2 of 2	0	September 24, 2010	Issued for Construction			
DN-DMC-023	HB+D-CIV-CIV-OND-0113	Material Specifications (Doris North Access Road)	0	September 24, 2010	Issued for Construction			

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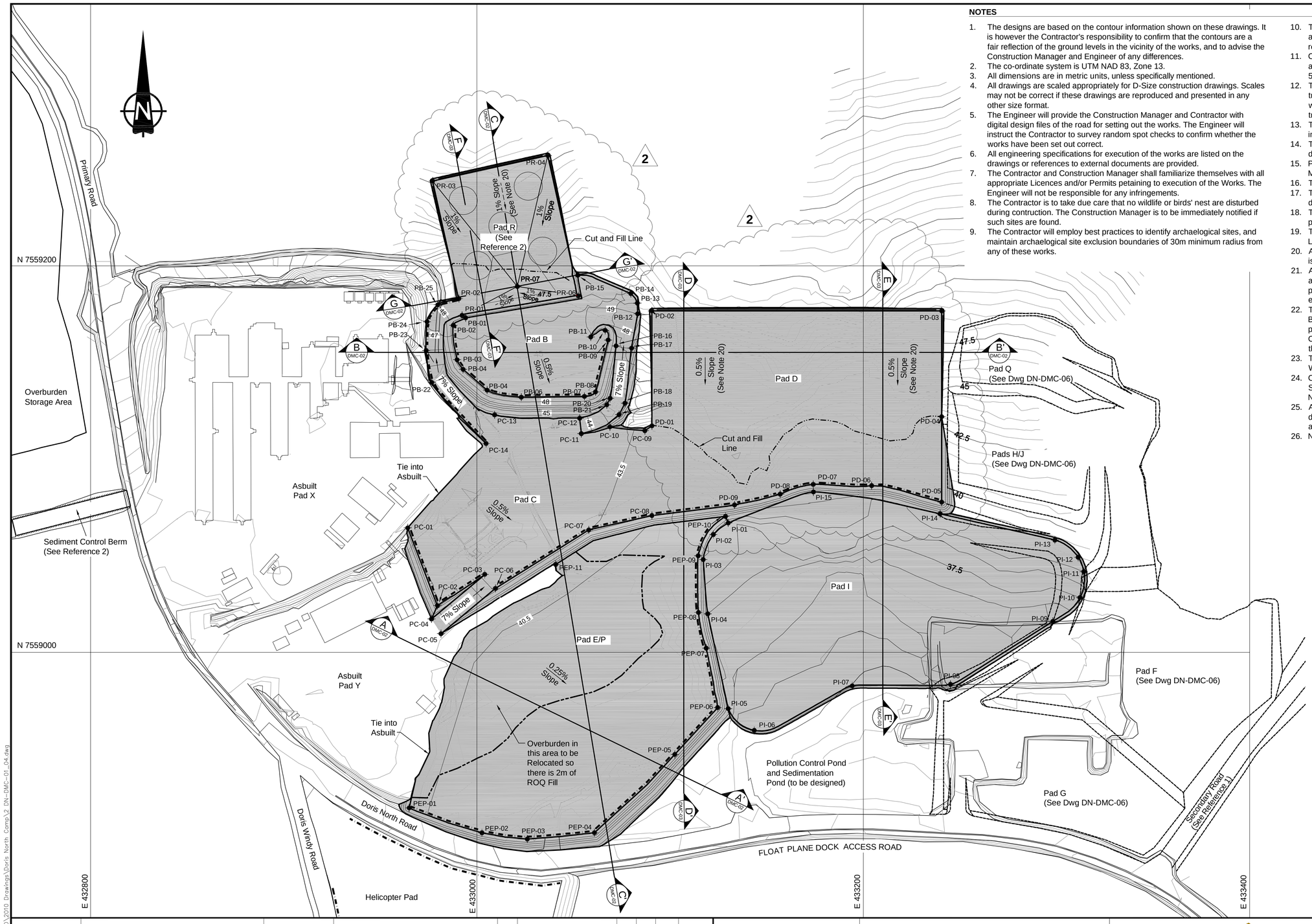
Engineers and Scientists
Vancouver

PROJECT NO: 1CH008.027
ISSUED FOR CONSTRUCTION
Revision 4
September 29, 2010
DN-DMC-00 / HB+D-CIV-CIV-OND-0039



NOTES

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3. All dimensions are in metric units, unless specifically mentioned.
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 of the road 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. All engineering specifications for execution of the works are listed on the drawings or references to external documents are provided.
7. The Contractor and Construction Manager shall familiarize themselves with all appropriate Licences and/or Permits petaining to execution of the Works. The Engineer will not be responsible for any infringements.
8. The Contractor is to take due care that no wildlife or birds' nest are disturbed during contruction. The Construction Manager is to be immediately notified if such sites are found.
9. The Contractor will employ best practices to identify archaelogical sites, and maintain archaelogical site exclusion boundaries of 30m minimum radius from any of these works.
10. These works must be executed in accordance with the standard HBML health and safety, and enviromental standards and protocols. It is the Contractors responsibility to familiarize himself with these documents.
11. Construction of the camp pad may not commence without on-site presence of an Engineers' representative. The Contractor shall notify the Engineer at least 5 days in advance of intended construction start-up.
12. The placement of rockfill material will be by CAT 773 and CAT 730 haul trucks. The Contractor must supply the Construction Manager and Engineer with a written procedure for how these works will be constructed using these trucks prior to the start of any construction.
13. The Contractor shall notify the Engineer at least 3 days in advance if an inspection is required for acceptance of works at any stage.
14. The Contractor is responsible to develop rock quarries within the general designated boundaries shown on this drawing.
15. Prior to quarry development, the Contractor must provide the Construction Manager and Engineer with a detailed quarry development plan for approval.
16. The Contractor is responsible for creating access to the rock quarries.
17. The Contractor will employ best practices to control at source run-off, fugitive dust, blast vibrations, and fly rock.
18. The Contractor shall employ best practices to ensure sediment control and to prevent erosion.
19. The terrain model is based on current original ground survey by Nuna Logistics and as-built survey by SNC Lavalin.
20. All excavated bedrock surfaces are to be free draining as shown. This slope is independent of the final finished surface elevation and grade.
21. Additional OG survey is required along the eastern section of Pads Q, H/J, F and G as shown on this drawing. Until this survey has been completed and provided to the Engineer, the Engineer cannot confirm that the grade and elevation is appropriate in those areas.
22. The lines on this drawing provides the final grade and elevation of all pads (R, B, C, D, E/P, I, H/J, Q, F and G). These grades include an allowance for placing a 150mm thick layer of surfacing grade material on all surfaces. The Contractor must make the appropriate adjustments to the grades set out for the Works.
23. The Engineer provided the Contractor and Owner with and ACAD file of the Works for setting out the works as indicated on this drawing.
24. Construction shall be in accordance with the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay project, Nunavut, Canada, revision C -Issue for Construction.
25. A minimum fill of 2m rock must be placed over the overburden pile. The drawing denotes a portion of the pile that will have to be relocated in order to accommodate this requirement.
26. Notes in this drawing apply to all other active drawings.

LEGEND

- New Camp Pads
- Stake-out Point
- Future Camp Pads/Road
- Existing Buildings
- Safety Berms (See Typical Berm Barrier Options Detail on Dwg DN-DMC-03)

REFERENCES

1. For detailed road alignment refer to Engineering Drawings for the Doris North Secondary Road, Doris North Project, Nunavut, Canada, Revision 0, SRK 2010.
2. For detailed design of the fuel tank farm refer to Engineering Drawings for the Doris North Fuel Tank Farm, Doris North Project, Nunavut, Canada, Revision A, SRK 2010.
3. For detailed design of sediment control berm refer to drawing Doris North Overburden Storage Area and Sedimentation Control Berm Plan and Sections, Revision 0, April 12, 2010.

0 10 20 30 40 50
Scale in Metres

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

NO.	DESCRIPTION	CHK'D	APP'D	CLIENT	DATE
3	ISSUED FOR CONSTRUCTION	LW	EMR	DT	30JUNE10
2	ISSUED FOR CONSTRUCTION	LW	EMR	DT	24JUNE10
1	ISSUED FOR COMMENT	LW	EMR		4JUNE10
0	ISSUED FOR CONSTRUCTION	–	EMR		26MAY10
REVISIONS					

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEERS STAMP

SRK Consulting
Engineers and Scientists
Vancouver

DESIGN:	DRAWN:	REVIEWED:
LW	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	JUNE 30, 2010

FILE NAME: 2 DN-DMC-01_04.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.027 | SRK DWG NO.: DN-DMC-01

DORIS NORTH PROJECT

DRAWING TITLE:
DORIS NORTH CAMP
GRADING PLAN
(WEST SIDE)

NEMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0030	2 OF 10	3

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NOTES

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Scale in Metres

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NO.	DESCRIPTION	CHK'D	APP'D	DATE
2	ISSUED FOR CONSTRUCTION	LW	EMR	24JUNE10
1	ISSUED FOR COMMENT	LW	EMR	4JUNE10
0	ISSUED FOR CONSTRUCTION	–	EMR	26MAY10

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEERS STAMP

SRK Consulting
Engineers and Scientists
Vancouver

DESIGN:	DRAWN:	REVIEWED:
LW	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	JUNE 24, 2010

FILE NAME: DN-DMC-01_02.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008 027 | SRK DWG NO.: DN-DMC-01

DORIS NORTH PROJECT

DRAWING TITLE:
DORIS NORTH CAMP GRADING PLAN (WEST SIDE)

NEMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0030	2 OF 6	2

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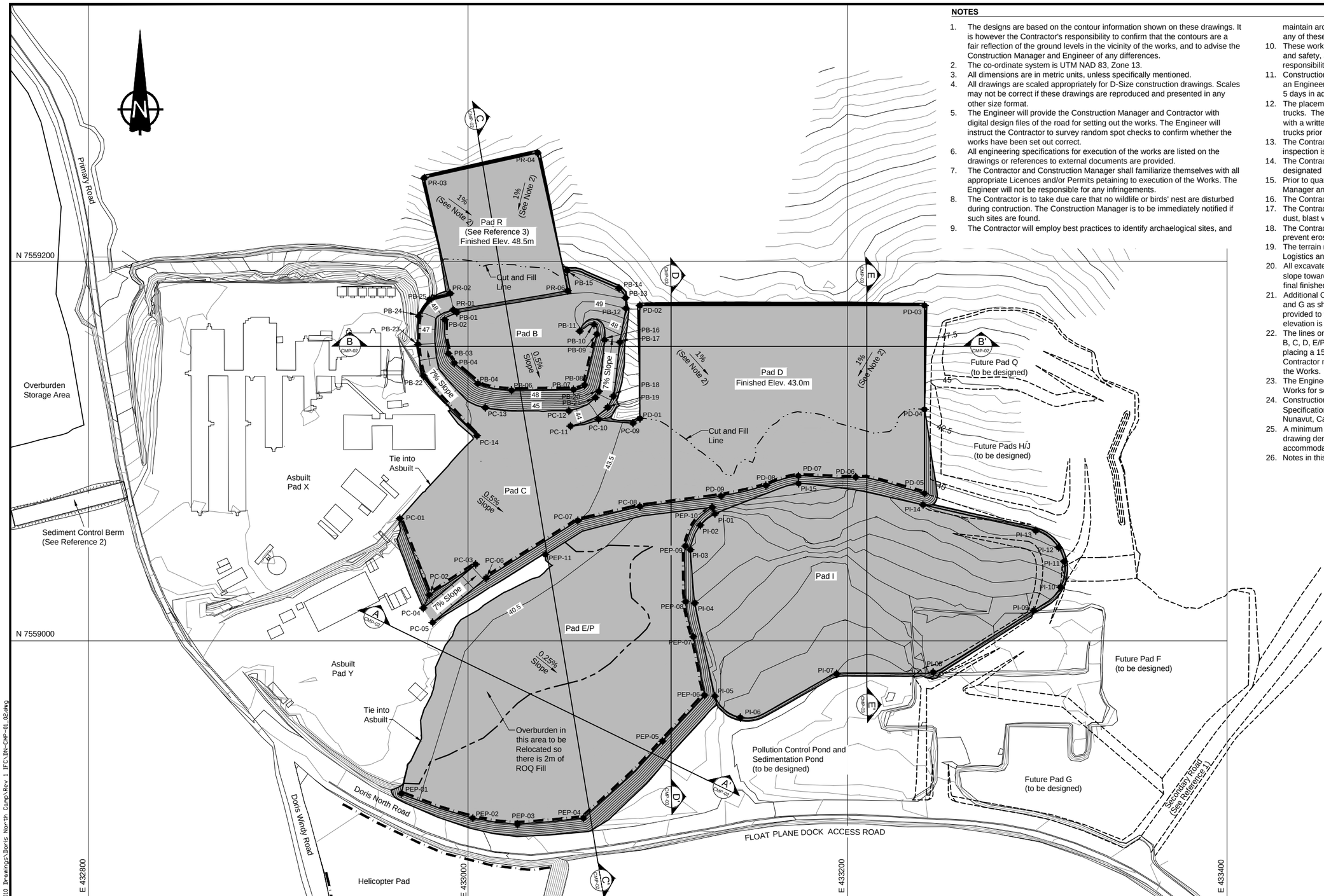

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9. The Contractor will employ best practices to identify archaelogical sites, and maintain archaelogical site exclusion boundaries of 30m minimum radius from any of these works.
10. These works must be executed in accordance with the standard HBML health and safety, and enviromental standards and protocols. It is the Contractors responsibility to familiarize himself with these documents.
11. Construction of the camp pad may not commence without on-site presence of an Engineers' representative. The Contractor shall notify the Engineer at least 5 days in advance of intended construction start-up.
12. The placement of rockfill material will be by CAT 773 and CAT 730 haul trucks. The Contractor must supply the Construction Manager and Engineer with a written procedure for how these works will be constructed using these trucks prior to the start of any construction.
13. The Contractor shall notify the Engineer at least 3 days in advance if an inspection is required for acceptance of works at any stage.
14. The Contractor is responsible to develop rock quarries within the general designated boundaries shown on this drawing.
15. Prior to quarry development, the Contractor must provide the Construction Manager and Engineer with a detailed quarry development plan for approval.
16. The Contractor is responsible for creating access to the rock quarries.
17. The Contractor will employ best practices to control at source run-off, fugitive dust, blast vibrations, and fly rock.
18. The Contractor shall employ best practices to ensure sediment control and to prevent erosion.
19. The terrain model is based on current original ground survey by Nuna Logistics and as-built survey by SNC Lavalin.
20. All excavated bedrock surfaces are to be free draining with a minimum 1% slope towards the front of the excavation. This slope is independent of the final finished surface elevation and grade.
21. Additional OG survey is required along the eastern section of Pads Q, H/J, F and G as shown on this drawing. Until this survey has been completed and provided to the Engineer, the Engineer cannot confirm that the grade and elevation is appropriate in those areas.
22. The lines on this drawing provides the final grade and elevation of all pads (R, B, C, D, E/P, I, H/J, Q, F and G). These grades include an allowance for placing a 150mm thick layer of surfacing grade material on all surfaces. The Contractor must make the appropriate adjustments to the grades set out for the Works.
23. The Engineer provided the Contractor and Owner with and ACAD file of the Works for setting out the works as indicated on this drawing.
24. Construction shall be in accordance with the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay project, Nunavut, Canada, revision C -Issue for Construction.
25. A minimum fill of 2m rock must be placed over the overburden pile. The drawing denotes a portion of the pile that will have to be relocated in order to accommodate this requirement.
26. Notes in this drawing apply to all other active drawings.

LEGEND

- New Camp Pads
- Stake-out Point
- Future Camp Pads/Road
- Existing Buildings
- Safety Berms (See Typical Berm Barrier Options Detail on Dwg DN-CMP-03)

REFERENCES

1. For detailed road alignment refer to Engineering Drawings for the Doris North Secondary Road, Doris North Project, Nunavut, Canada, Revision 0, SRK 2010.
2. For detailed design of the fuel tank farm refer to Engineering Drawings for the Doris North Fuel Tank Farm, Doris North Project, Nunavut, Canada, Revision A, SRK 2010.
3. For detailed design of sediment control berm refer to drawing Doris North Overburden Storage Area and Sedimentation Control Berm Plan and Sections, Revision 0, April 12, 2010.

0 10 20 30 40 50
Scale in Metres

J:\01_SITES\Hope Bay\CAD\2010 Drawings\Doris North Camp\Rev. 1 IFC\DN-CMP-01_02.dwg

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

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
1	ISSUED FOR COMMENT	LW	EMR	4JUNE10
0	ISSUED FOR CONSTRUCTION		EMR	26MAY10

REVISIONS

PROFESSIONAL ENGINEERS STAMP

SRK Consulting Engineers and Scientists Vancouver

DESIGN: LW	DRAWN: MDDS	REVIEWED: EMR
CHECKED: LW	APPROVED: EMR	DATE: JUNE 4, 2010

FILE NAME: DN-CMP-01_02.dwg

NEWMONT. NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008 027

DORIS NORTH PROJECT

DRAWING TITLE:

DORIS NORTH CAMP GRADING PLAN

DRAWING NO.	SHEET	REVISION NO.
DN-CMP-01	2 OF 5	1

LEGEND

- Existing O/B pile
- Extent of OG survey (May 2010)
- New Doris Grading Plan (May 2010)
- As-Built toe/crest
- Portion of O/B pile where rock cover will be less than 1m thick
- Portion of O/B pile where rock cover will be less than 2m thick
- OG Survey not yet completed

NOTES

1. This drawing is an interim IFC drawing to allow early construction to proceed. A more comprehensive set of IFC drawings are under production. As detailed engineering advances there may be areas where changes are required and that may lead to areas of rework for which the Engineer cannot be responsible at this time.
2. Additional OG survey is required along the eastern section of Pads Q, H/J, F and G as shown on this drawing. Until this survey has been completed and provided to the Engineer, the Engineer cannot confirm that the grade and elevation is appropriate in those areas.
3. The lines on this drawing provides the final grade and elevation of all pads (R, B, C, D, E/P, I, H/J, Q, F and G). These grades include an allowance for placing a 150mm thick layer of surfacing grade material on all surfaces. The Contractor must make the appropriate adjustments to the grades set out for the Works.
4. The Engineer provided the Contractor and Owner with and ACAD file of the Works for setting out the works as indicated on this drawing.
5. Construction shall be in accordance with the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay project, Nunavut, Canada, revision C -Issue for Construction.
6. A minimum fill of 2m rock must be placed over the overburden pile. The drawing denotes a portion of the pile that will have to be relocated in order to accommodate this requirement.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
0	Issued for Construction		EMR	26May10

REVISIONS

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEER'S STAMP

SRK Consulting
Engineers and Scientists
Vancouver

DESIGN:	DRAWN:	REVIEWED:
EMR	DMC	EMR
CHECKED:	APPROVED:	DATE:
EMR	EMR	May 26 2010

FILE NAME: DorisAreaGradingPlan.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.027

Doris North Project

DRAWING TITLE: General Arrangement

DRAWING NO.	SHEET	REVISION NO.
DN-CMP-01	1 of 1	0

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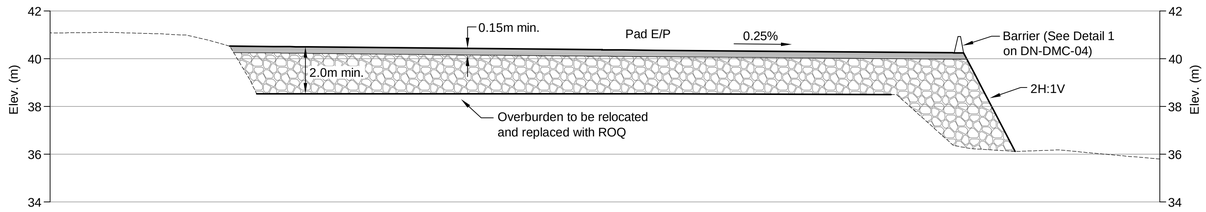


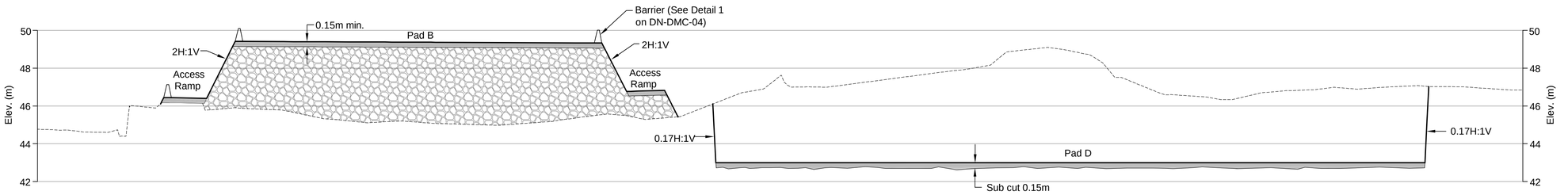
A **SECTION**

LEGEND

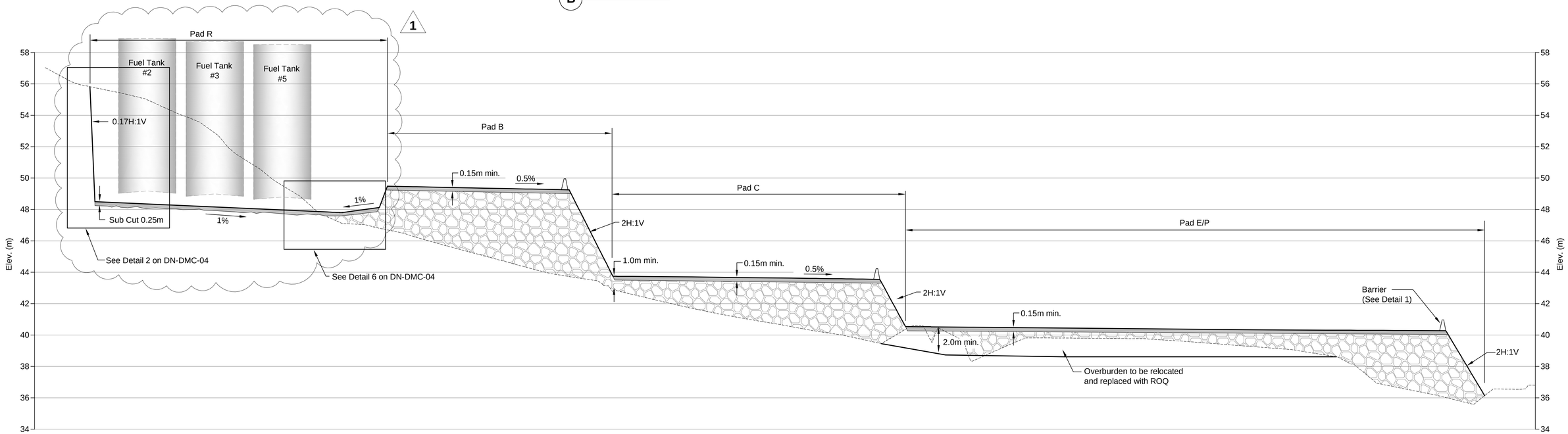
- Existing ground surface
- Surfacing Material
- Run of Quarry Material

NOTES

1. All dimensions in metres unless noted otherwise.
2. Where the thickness of the pads is greater than 3.0m allow for the placement of barriers.
3. The barriers are to consist of boulders larger than 1m in diameter, jersey-barriers (1.82 long X 1.37m high X 0.61m wide) or a rock fill berm 0.5m high. Maximum spacing between barriers is 3.3m.
4. Notes in this drawing apply to all other active drawings.



B **SECTION**



C **SECTION**

0 5 10 15 20 25 Scale in Metres (Horizontal)

0 1 2 3 4 5 Scale in Metres (Vertical)

4X VERTICAL EXAGGERATION

NO.	DESCRIPTION	CHK'D	APP'D	CLIENT	DATE
1	ISSUED FOR CONSTRUCTION	LW	EMR	DT	30JUNE10
0	ISSUED FOR CONSTRUCTION	LW	EMR	DT	24JUNE10
A	ISSUED FOR COMMMENT	LW	EMR		4JUNE10

REVISIONS

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEERS STAMP

SRK Consulting Engineers and Scientists Vancouver

DESIGN:	DRAWN:	REVIEWED:
LW	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	JUNE 30, 2010

FILE NAME: 2 DN-DMC-01_04.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.027 SRK DWG NO.: DN-DMC-02

DORIS NORTH PROJECT

DRAWING TITLE:
DORIS NORTH CAMP
SECTIONS AND DETAILS
(WEST SIDE)

NEMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0040	3 OF 10	1

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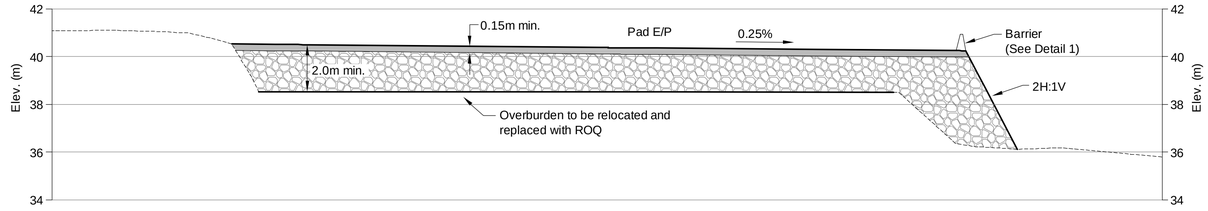


A **SECTION**

LEGEND

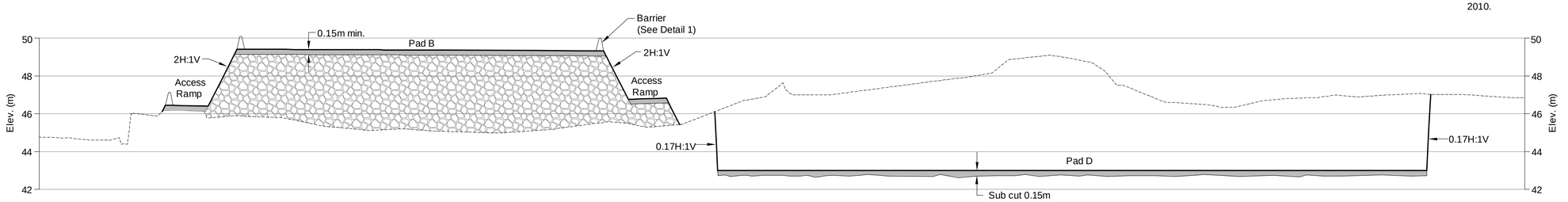
- Existing ground surface
- Surfacing Material
- Run of Quarry Material

NOTES

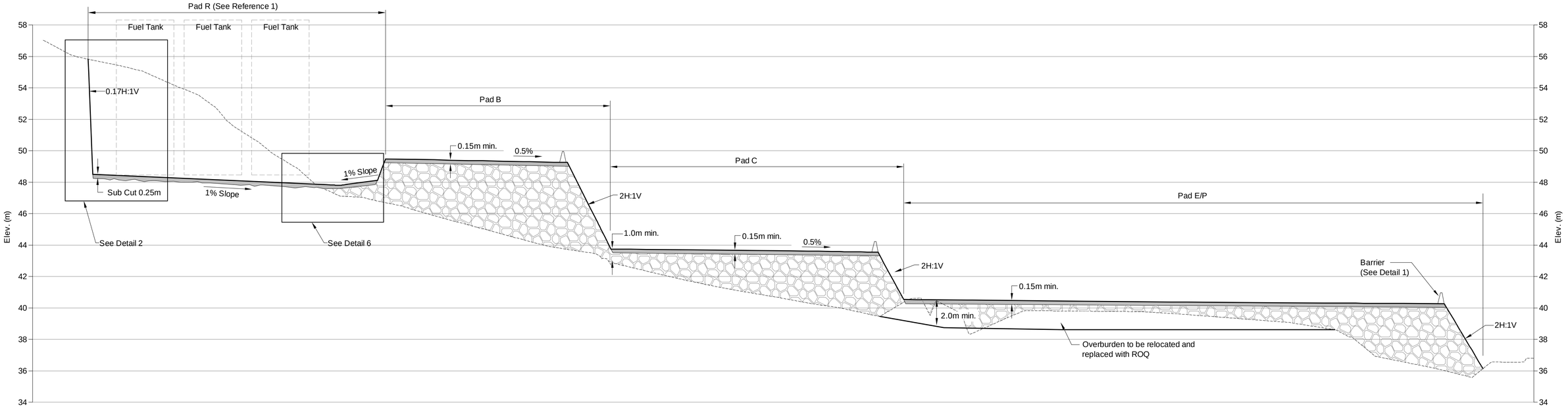
1. All dimensions in metres unless noted otherwise.
2. Where the thickness of the pads is greater than 3.0m allow for the placement of barriers.
3. The barriers are to consist of boulders larger than 1m in diameter, jersey-barriers (1.82 long X 1.37m high X 0.61m wide) or a rock fill berm 0.5m high. Maximum spacing between barriers is 3.3m.
4. Notes in this drawing apply to all other active drawings.

REFERENCES

1. For detailed design of the fuel tank farm refer to Engineering Drawings for the Doris North Fuel Tank Farm, Doris North Project, Nunavut, Canada, Revision A, SRK 2010.



B **SECTION**



C **SECTION**

0 5 10 15 20 25
Scale in Metres (Horizontal)

0 1 2 3 4 5
Scale in Metres (Vertical)

4X VERTICAL EXAGGERATION

C:\MDSNV\CLIENTS\SRK\DORIS NORTH PROJECT\DORIS NORTH AREA\DORIS NORTH CAMP DRAWINGS\DN-DMC-01_02.dwg

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

NO.	DESCRIPTION	CHK'D	APP'D	DATE
2	ISSUED FOR CONSTRUCTION	LW	EMR	24JUNE10
A	ISSUED FOR COMMMENT	LW	EMR	4JUNE10
REVISIONS				

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEERS STAMP

SRK Consulting
Engineers and Scientists
Vancouver

DESIGN:	DRAWN:	REVIEWED:
LW	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	JUNE 24, 2010

FILE NAME: DN-DMC-01_02.dwg

NEWMONT NORTH AMERICA

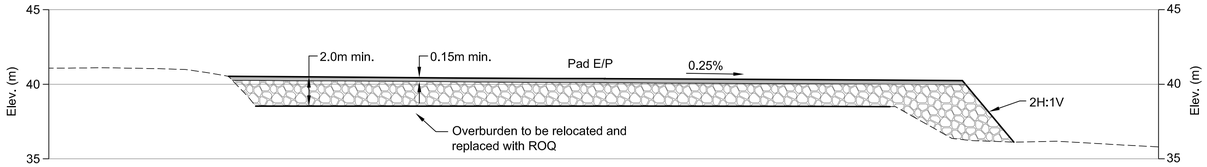
HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.027 | SRK DWG NO.: DN-DMC-02

DORIS NORTH PROJECT

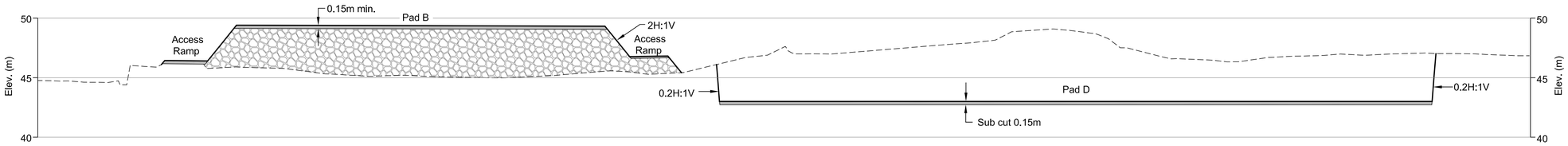
DRAWING TITLE:
DORIS NORTH CAMP
SECTIONS AND DETAILS
(WEST SIDE)

NEMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0040	3 OF 6	0



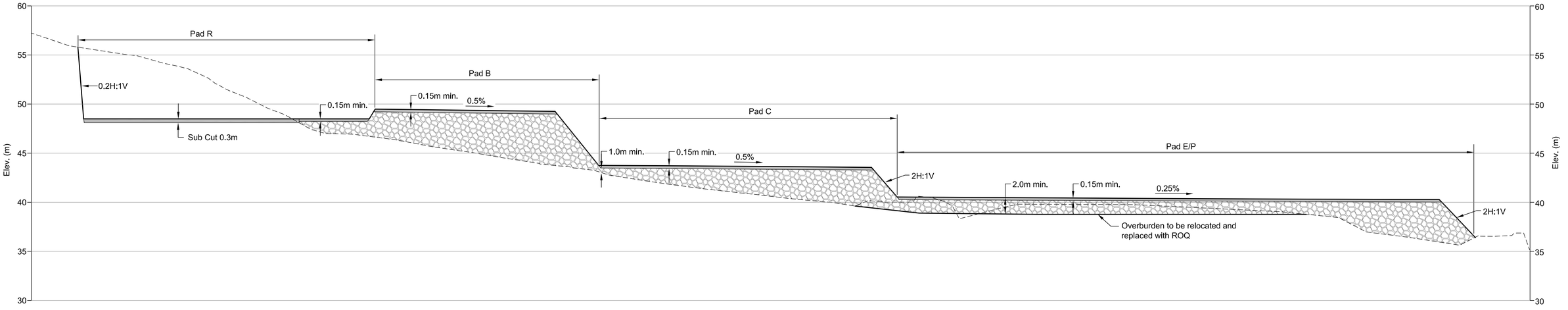
A SECTION

0 5 10 15 20 25 Scale in Metres (Horizontal)
0 2 4 6 8 10 Scale in Metres (Vertical
2.5X VERTICAL EXAGGERATION



B SECTION

0 5 10 15 20 25 Scale in Metres (Horizontal)
0 2 4 6 8 10 Scale in Metres (Vertical
2.5X VERTICAL EXAGGERATION



C SECTION

0 5 10 15 20 25 Scale in Metres (Horizontal)
0 2 4 6 8 10 Scale in Metres (Vertical
2.5X VERTICAL EXAGGERATION

LEGEND

- Existing ground surface
- Surfacing Material
- Run of Quarry Material

NOTES

1. All dimensions in metres unless noted otherwise.
2. Where the thickness of the pads is greater than 3.0m allow for the placement of barriers.
3. The barriers are to consist of boulders larger than 1m in diameter, jersey-barriers (1.82 long X 1.37m high X 0.61m wide) or a rock fill berm 0.5m high. Maximum spacing between barriers is 3.3m.
4. Notes in this drawing apply to all other active drawings.

REFERENCE DRAWINGS				REVISIONS				
–	–							
CMP-01	DORIS NORTH CAMP GRADING PLAN			A	ISSUED FOR COMMMENT	LW	EMR	4JUNE10
DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE	NO.	DESCRIPTION	CHK'D	APP'D	DATE

PROFESSIONAL ENGINEERS STAMP

SRK Consulting Engineers and Scientists Vancouver

DESIGN: LW	DRAWN: MDDS	REVIEWED: EMR
CHECKED: LW	APPROVED: EMR	DATE: JUNE 4, 2010

FILE NAME: DN-CMP-01_02.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008 027

DORIS NORTH PROJECT

DRAWING TITLE:

DORIS NORTH CAMP
SECTIONS AND DETAILS

DRAWING NO.	SHEET	REVISION NO.
DN-CMP-02	3 OF 5	A

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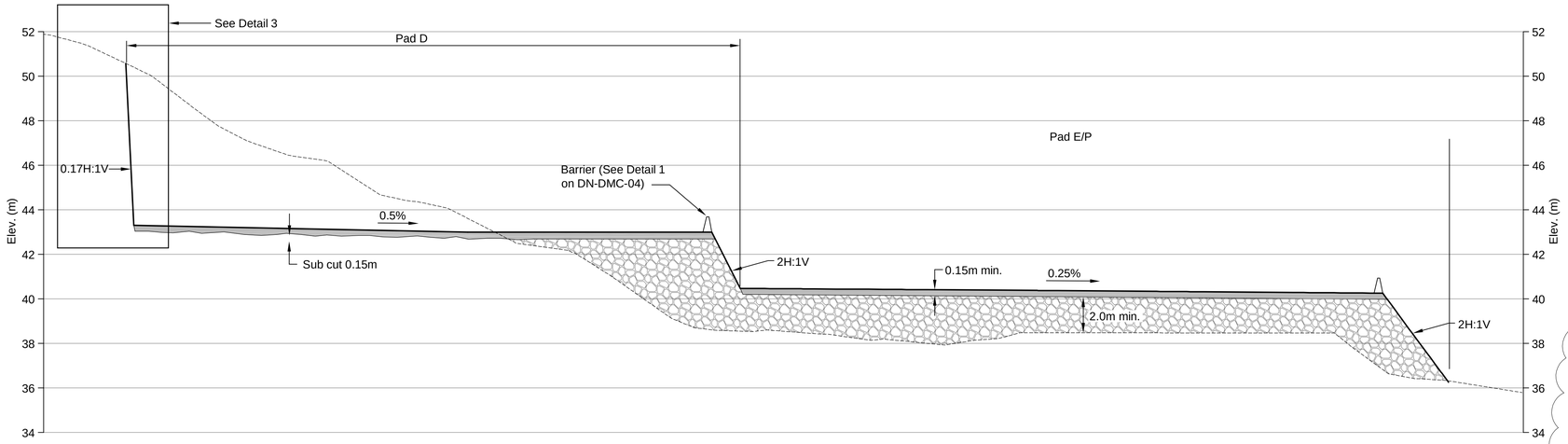
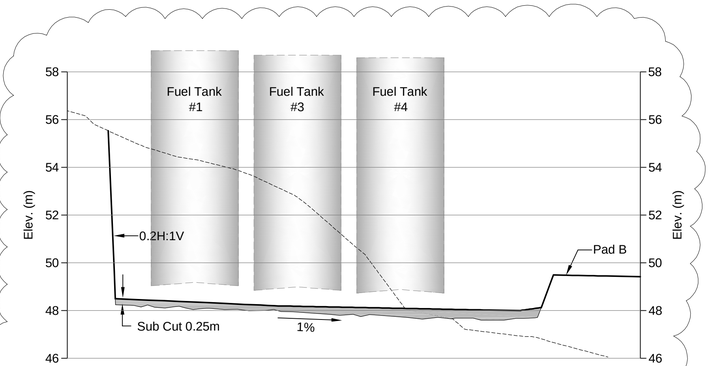


D **SECTION**



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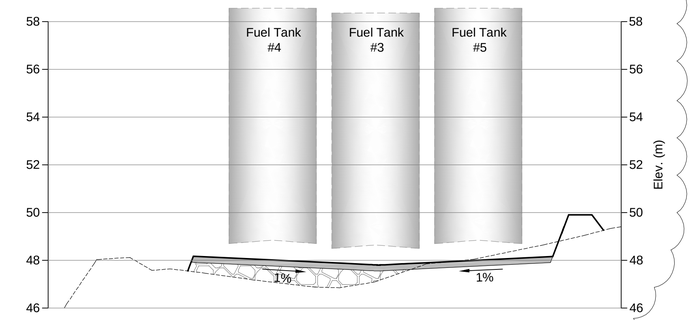

G **SECTION**

1

E **SECTION**

LEGEND

- Existing ground surface
- Surfacing Material
- Run of Quarry Material

NOTES

1. All dimensions in metres unless noted otherwise.
2. Minimum design thickness must be maintained for all sections of the Pads
3. Where the thickness of the pads is greater than 2.0m allow for the placement of barriers.
4. The barriers are to consist of boulders larger than 1m in diameter, jersey-barriers (1.82 long X 1.37m high X 0.61m wide) or a rock fill berm 0.5m high. Maximum spacing between barriers is 3.3m.
5. Notes in this drawing apply to all other active drawings.

0 5 10 15 20 25 — Scale in Metres (Horizontal)
0 2 4 6 8 10 — Scale in Metres (Vertical
4X VERTICAL EXAGGERATION

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	CLIENT	DATE
1	ISSUED FOR CONSTRUCTION	LW	EMR	DT	30JUNE10
0	ISSUED FOR CONSTRUCTION	LW	EMR	DT	24JUNE10
A	ISSUED FOR COMMMENT	LW	EMR		4JUNE10

REVISIONS

Original Drawings
Stamped and
Signed by Engineer

PROFESSIONAL ENGINEERS STAMP

SRK Consulting
Engineers and Scientists
Vancouver

DESIGN:	DRAWN:	REVIEWED:
LW	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	JUNE 30, 2010

FILE NAME: 2 DN-DMC-01_04.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.027 | SRK DWG NO.: DN-DMC-03

DORIS NORTH PROJECT

DRAWING TITLE:
DORIS NORTH CAMP
SECTIONS AND DETAILS
(WEST SIDE)

NEMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0041	4 OF 10	1

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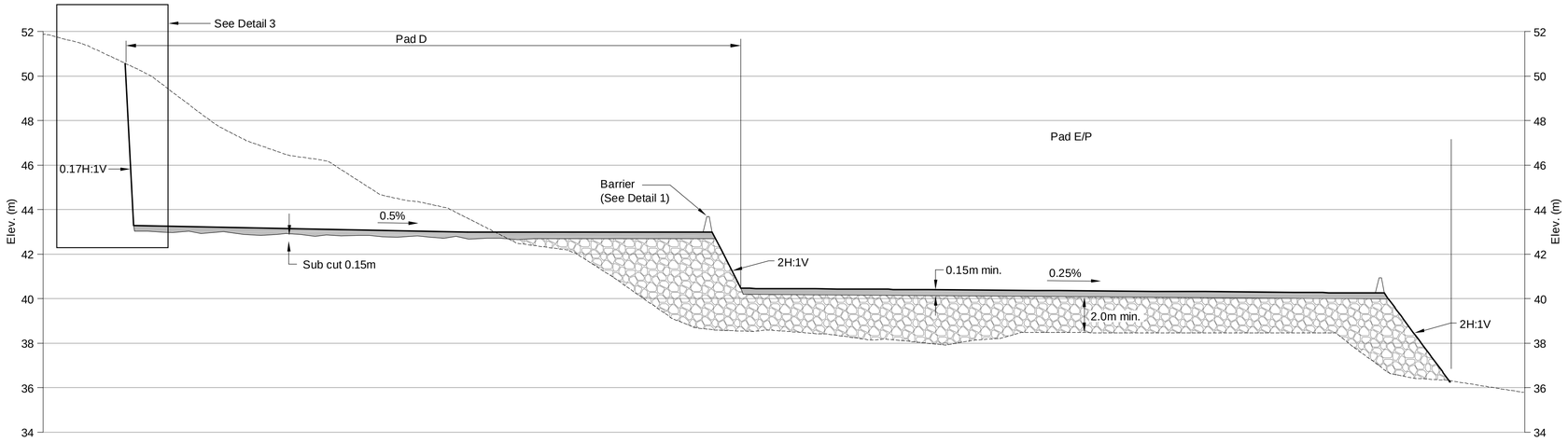

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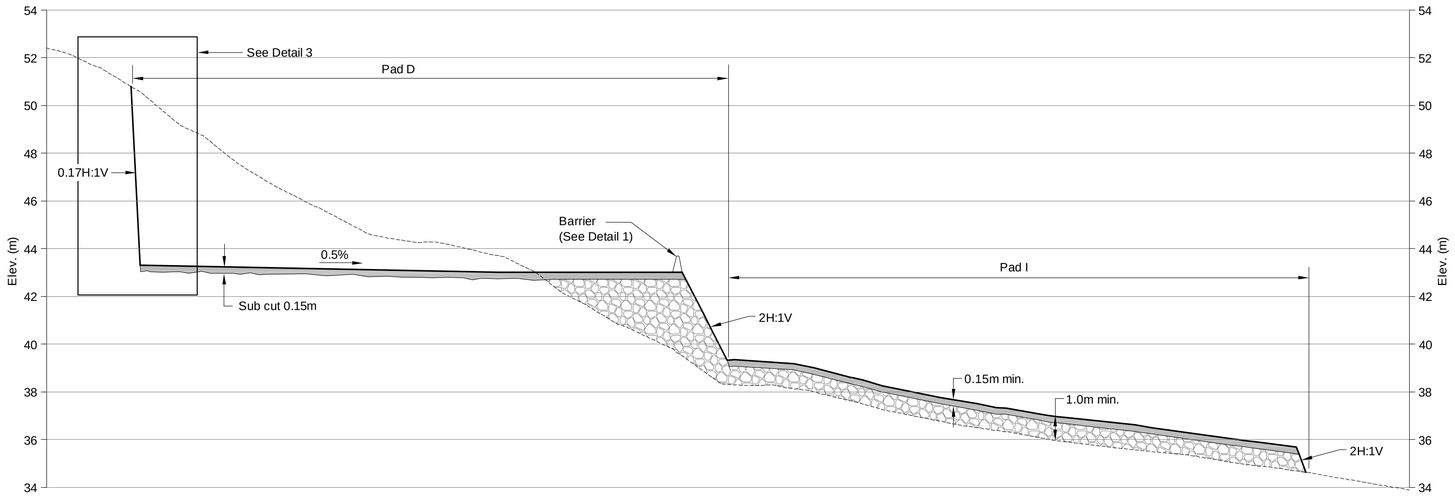

E **SECTION**

LEGEND

- Existing ground surface
- Run of Quarry Material
- Surfacing Material

NOTES

1. All dimensions in metres unless noted otherwise.
2. Minimum design thickness must be maintained for all sections of the Pads
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4. The barriers are to consist of boulders larger than 1m in diameter, jersey-barriers (1.82 long X 1.37m high X 0.61m wide) or a rock fill berm 0.5m high. Maximum spacing between barriers is 3.3m.
5. Notes in this drawing apply to all other active drawings.

0 5 10 15 20 25 Scale in Metres (Horizontal)
0 2 4 6 8 10 Scale in Metres (Vertical
4X VERTICAL EXAGGERATION

NO.	DESCRIPTION	CHK'D	APP'D	DATE
2	ISSUED FOR CONSTRUCTION	LW	EMR	24JUNE10
A	ISSUED FOR COMMMENT	LW	EMR	4JUNE10

REVISIONS

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEERS STAMP

SRK Consulting Engineers and Scientists Vancouver

DESIGN:	DRAWN:	REVIEWED:
LW	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	JUNE 24, 2010

FILE NAME: DN-DMC-01_02.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.027 SRK DWG NO.: DN-DMC-03

DORIS NORTH PROJECT

DRAWING TITLE:
DORIS NORTH CAMP
SECTIONS AND DETAILS
(WEST SIDE)

NEMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0041	4 OF 6	0

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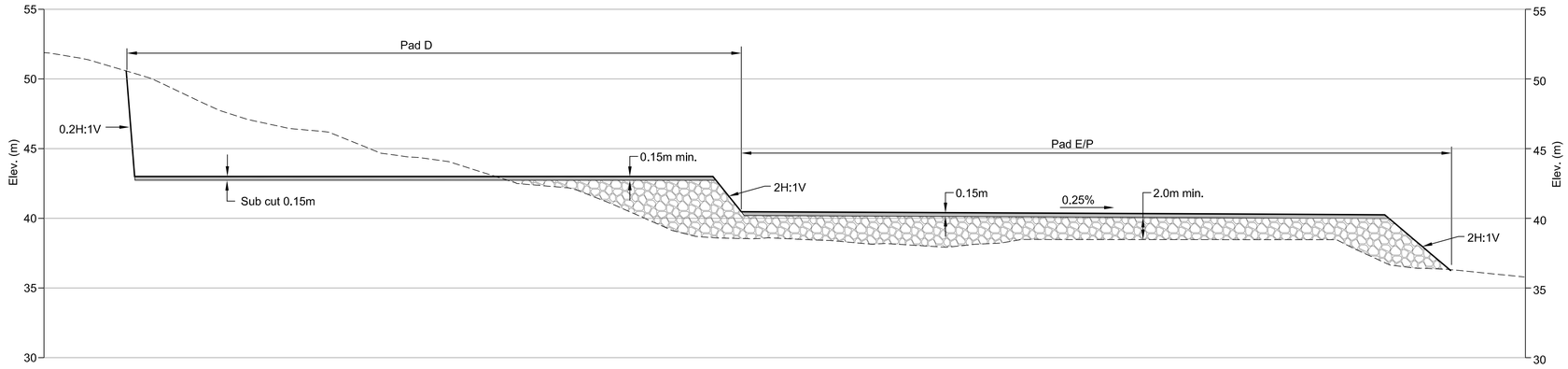
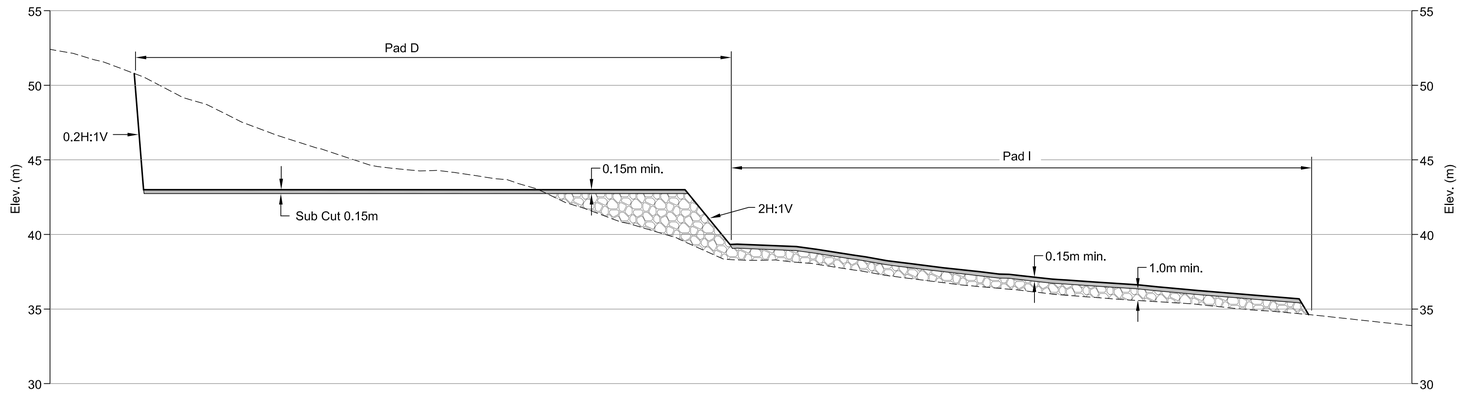


D SECTION

0 5 10 15 20 25 Scale in Metres (Horizontal)

0 2 4 6 8 10 Scale in Metres (Vertical

2.5X VERTICAL EXAGGERATION

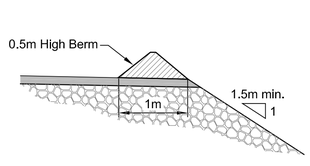


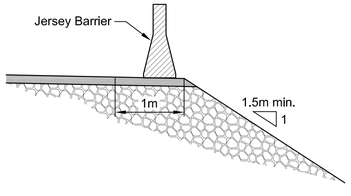
E SECTION

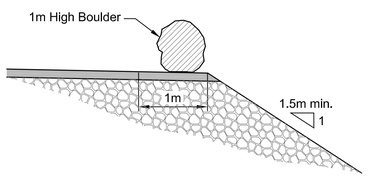
0 5 10 15 20 25 Scale in Metres (Horizontal)

0 2 4 6 8 10 Scale in Metres (Vertical

2.5X VERTICAL EXAGGERATION







DETAIL

TYPICAL BERM BARRIER OPTIONS

NTS

LEGEND

- Existing ground surface
- Run of Quarry Material
- Surfacing Material

NOTES

1. All dimensions in metres unless noted otherwise.
2. Minimum design thickness must be maintained for all sections of the Pads
3. Where the thickness of the pads is greater than 2.0m allow for the placement of barriers.
4. The barriers are to consist of boulders larger than 1m in diameter, jersey-barriers (1.82 long X 1.37m high X 0.61m wide) or a rock fill berm 0.5m high. Maximum spacing between barriers is 3.3m.
5. Notes in this drawing apply to all other active drawings.

REFERENCE DRAWINGS				REVISIONS				
–	–							
CMP-01	DORIS NORTH CAMP GRADING PLAN			A	ISSUED FOR COMMMENT	LW	EMR	4JUNE10
DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE	NO.	DESCRIPTION	CHK'D	APP'D	DATE

PROFESSIONAL ENGINEERS STAMP

SRK Consulting Engineers and Scientists Vancouver

DESIGN: LW	DRAWN: MDDS	REVIEWED: EMR
CHECKED: LW	APPROVED: EMR	DATE: JUNE 4, 2010

FILE NAME: DN-CMP-01_02.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008 027

DORIS NORTH PROJECT

DRAWING TITLE:

DORIS NORTH CAMP
SECTIONS AND DETAILS

DRAWING NO.	SHEET	REVISION NO.
DN-CMP-03	4 OF 5	A

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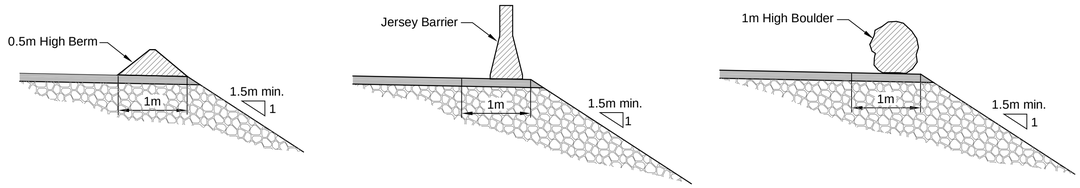
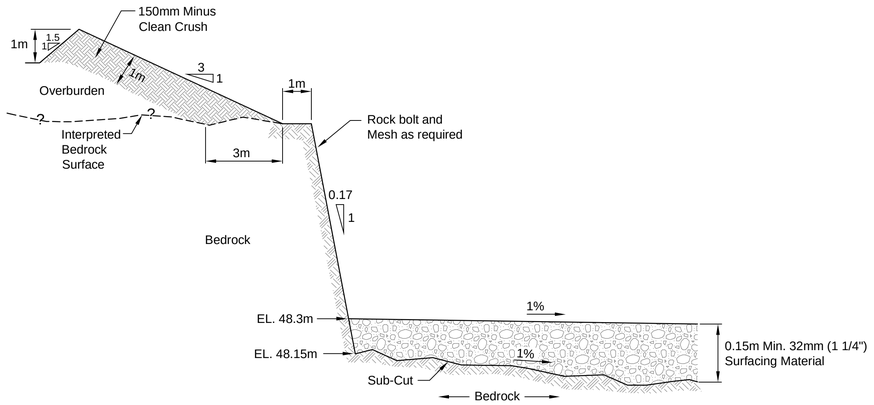
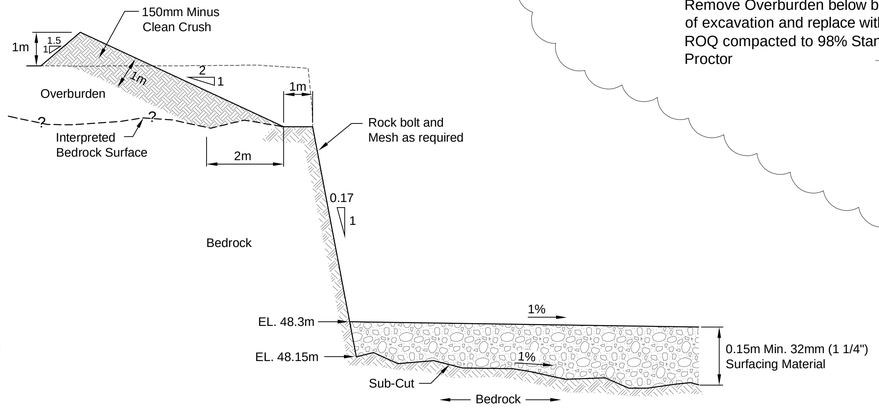


DETAIL 1
TYPICAL BERM BARRIER OPTIONS
NTS

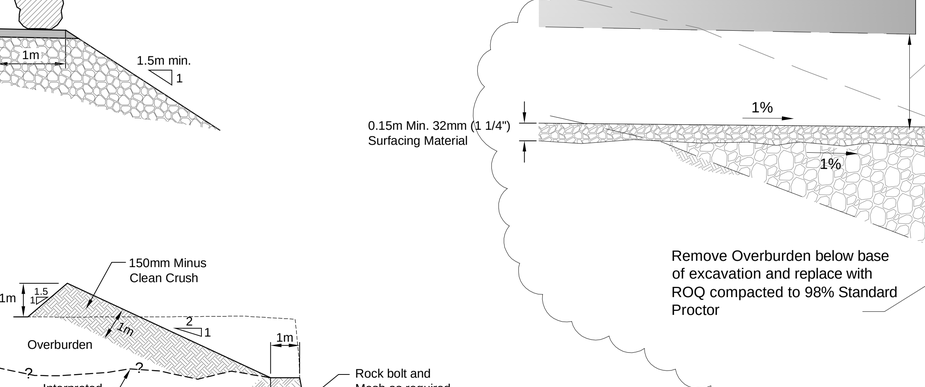


DETAIL 2
TYPICAL SECTION AT PAD 'R'
FOR OVERBURDEN > 1.5m THICK
NTS

DETAIL 3
TYPICAL SECTION AT PAD 'D'
FOR OVERBURDEN > 1.5m THICK
NTS



DETAIL 4
TYPICAL SECTION AT PAD 'R'
FOR OVERBURDEN < 1.5m THICK
NTS



DETAIL 5
TYPICAL SECTION AT PAD 'D'
FOR OVERBURDEN < 1.5m THICK
NTS

DETAIL 6
TYPICAL OVERBURDEN
UNDERNEATH FUEL TANK
NTS

REFERENCE

1. For detailed design of the fuel tank farm refer to Engineering Drawings for the Doris North Fuel Tank Farm, Doris North Project, Nunavut, Canada, Revision A, SRK 2010.

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

NO.	DESCRIPTION	CHK'D	APP'D	CLIENT	DATE
1	ISSUED FOR CONSTRUCTION	LW	EMR	DT	30JUNE10
0	ISSUED FOR CONSTRUCTION	LW	EMR	DT	24JUNE10
A	ISSUED FOR COMMMENT	LW	EMR		4JUNE10

REVISIONS

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEERS STAMP

SRK Consulting Engineers and Scientists Vancouver

DESIGN: LW | DRAWN: MDDS | REVIEWED: EMR
CHECKED: LW | APPROVED: EMR | DATE: JUNE 30, 2010
FILE NAME: 2 DN-DMC-01_04.dwg

NEWMONT NORTH AMERICA

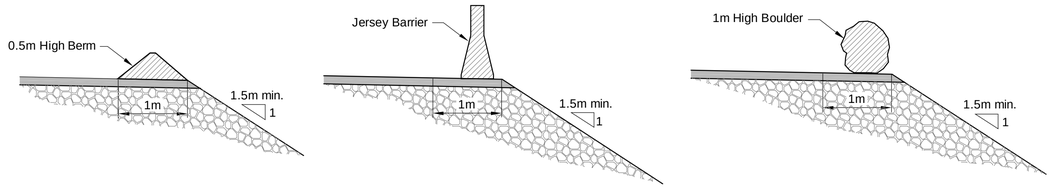
HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.027 | SRK DWG NO.: DN-DMC-04

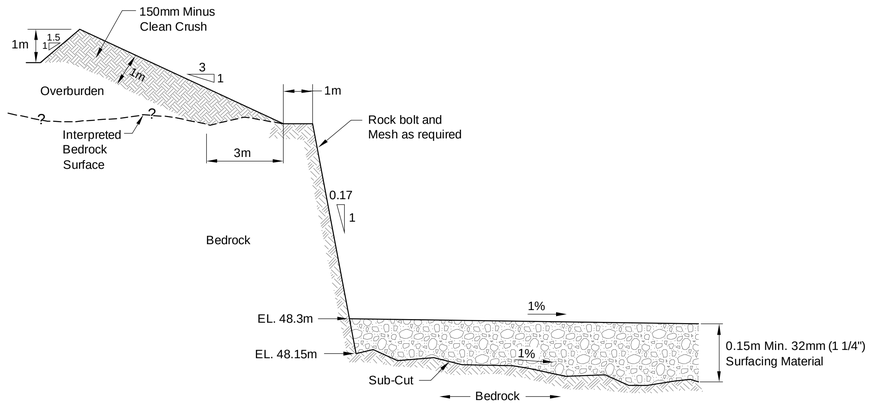
DORIS NORTH PROJECT

DRAWING TITLE:
DORIS NORTH CAMP
SECTIONS AND DETAILS
(WEST SIDE)

NEMONT DRAWING NO.: HB+D-CIV-CIV-OND-0042 | SHEET: 5 OF 10 | REVISION NO.: 1

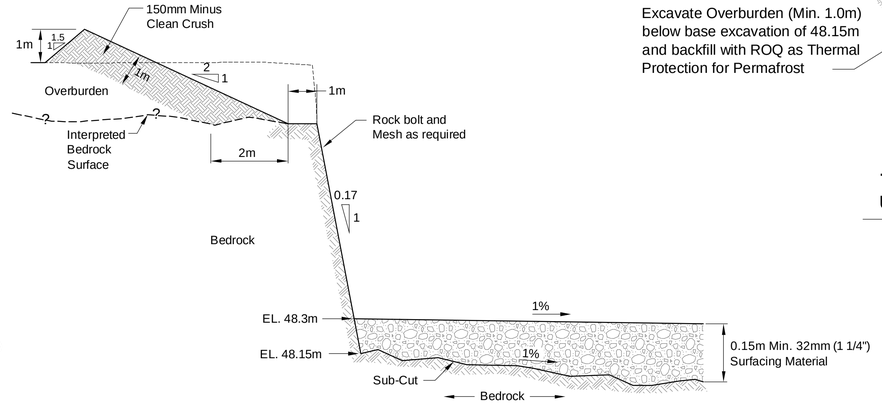


DETAIL 1
TYPICAL BERM BARRIER OPTIONS
NTS



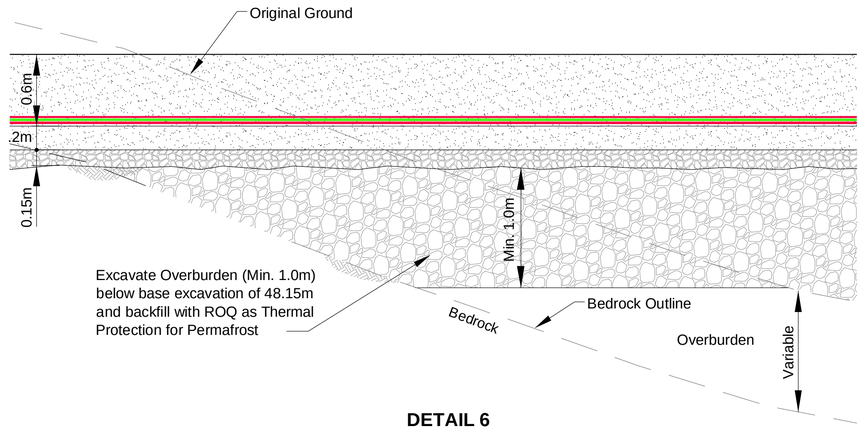
DETAIL 2
TYPICAL SECTION AT PAD 'R'
FOR OVERBURDEN < 1.5m THICK
NTS

DETAIL 3
TYPICAL SECTION AT PAD 'D'
FOR OVERBURDEN > 1.5m THICK
NTS



DETAIL 4
TYPICAL SECTION AT PAD 'R'
FOR OVERBURDEN < 1.5m THICK
NTS

DETAIL 5
TYPICAL SECTION AT PAD 'D'
FOR OVERBURDEN > 1.5m THICK
NTS



DETAIL 6
TYPICAL OVERBURDEN
UNDERNEATH FUEL TANK
NTS

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

NO.	DESCRIPTION	CHK'D	APP'D	DATE
0	ISSUED FOR CONSTRUCTION	LW	EMR	24JUNE10
A	ISSUED FOR COMMMENT	LW	EMR	4JUNE10

REVISIONS

Original Drawings
Stamped and
Signed by Engineer

PROFESSIONAL ENGINEERS STAMP

SRK Consulting
Engineers and Scientists
Vancouver

DESIGN: LW | DRAWN: MDDS | REVIEWED: EMR
CHECKED: LW | APPROVED: EMR | DATE: JUNE 24, 2010
FILE NAME: DN-DMC-01_02.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.027 | SRK DWG NO.: DN-DMC-04

DORIS NORTH PROJECT

DRAWING TITLE:
DORIS NORTH CAMP
SECTIONS AND DETAILS
(WEST SIDE)

NEMONT DRAWING NO.: HB+D-CIV-CIV-OND-0042
SHEET: 5 OF 6
REVISION NO.: 0

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NOTES

1. Soil classification for these works are based on the Unified Soil Classification System (USCS).
2. On bare tundra surfaces the maximum snow thickness allowed prior to fill placement shall be 102mm (4"). On all other surfaces complete snow removal is required. The Engineer must approve all surfaces prior to placement of any construction material.
3. Snow and ice on construction material must be removed prior to loading for construction use.
4. Due care must be taken when placing fill materials such that no damage occurs to the subgrade and/or culverts. Any damage must be immediately reported to the Engineer.
5. Maximum lift thickness is 1.85m. Staged construction will be required where fill thickness exceeds 1.85m.
6. In areas where staged construction is required, all snow shall be removed and the surface scarified prior to placing the next lift. The Engineer will approve such staged construction.
7. Run of Quarry, and Surfacing material has to be compacted after placement.
8. Compaction will be a field specification, based on trial compaction tests to be carried out by the Contractor to the satisfaction of the Engineer.
9. It is the Contractor's responsibility to create the construction materials as specified through appropriate crushing. Any deviations must be approved by the Engineer.
10. Construction fill material shall be from approved rock quarries, shall be non-acid generating, free of organic material or similar impurities, as well as snow and ice.
11. Construction fill material must be free of overburden soils. Such unsuitable material shall be disposed of in a designated on site disposal area as outlined in the Contractors' quarry development plan.
12. Construction fill material will not have to be washed to remove blast residues or fines, unless specifically instructed by the Engineer.
13. Run of Quarry (ROQ) shall be well-graded, containing sufficient quantities of gravel, sand, and silt sized material. For fill thickness <0.85m the maximum boulder size shall not exceed 500mm. For fill thickness >0.85m the maximum boulder size shall not exceed 900mm.
14. Surfacing material shall be a well-graded manufactured crush product produced from ROQ material. The screen size shall be no greater than 51mm (2") but no smaller than 32mm ($1\frac{1}{4}$").
15. ROQ material shall be visually inspected by the Engineer on a routine basis and the Contractor will be advised if the material does not meet the specification in Note 17.
16. The Contractor shall collect samples of the surfacing material directly from the crusher stockpile and submit for laboratory testing including but not limited to grain size distribution, and moisture content at least 1 sample every 8,000m^3. The Engineer may conduct additional sampling and testing as deemed necessary.
17. Sample collection and testing of ROQ, and surface material for geochemical suitability is required and will be carried out by the Site Environmental Manager in accordance with procedures developed by SRK.

Materials List and Quantities

Item	Quantity / Area / Volume		Description
1. Run of Quarry Material	Pad B	16,964 m³	Volumes derived by Eagle Point 7.2. - Side slopes 1.5H:1V for fill less than 2m - Side slopes 2H:1V for fill greater than 2m - Fills are min. 1.0m - Volumes derived by merging Topography/ As-built to Pad Design Surfaces.
	Pad R Cut	15,660 m³	
	Pad R Fill	1,134 ³	
	Pad C	16,197 m³	
	Pad D Fill	8,309 m³	
	Pad D Cut	37,000 m³	
	Pad E/P	31,372 m³	
	Pad I	14,526 m³	
	Total Fill:	87,368 m^3	
	Total Cut:	37,000 m³	
2. Surface Grade Material	Pad B	1,267 m³	
	Pad R	1,148 m³	
	Pad C	1,153 m³	
	Pad D	2,167 m³	
	Pad E/P	2,628 m³	
	Pad I	2,474 m³	
	Total Fill:	10,837 m³	
3. Volume of Overburden to be Relocated	Pad E/P	3,000 m³	Approximate

PAD E/P STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PEP-01	7,558,919.48	432,964.90	40.52
PEP-02	7,558,906.59	433,002.59	40.43
PEP-03	7,558,903.36	433,026.07	40.37
PEP-04	7,558,906.62	433,060.82	40.29
PEP-05	7,558,947.15	433,102.43	40.25
PEP-06	7,558,971.42	433,124.60	40.27
PEP-07	7,559,002.17	433,118.72	40.33
PEP-08	7,559,020.66	433,114.68	40.37
PEP-09	7,559,049.99	433,114.54	40.43
PEP-10	7,559,070.39	433,128.67	40.42
PEP-11	7,559,045.52	433,040.74	40.54

PAD I STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PI-01	7,559,066.95	433,130.11	38.63
PI-02	7,559,060.99	433,122.40	38.89
PI-03	7,559,047.97	433,117.24	38.96
PI-04	7,559,019.96	433,119.52	38.00
PI-05	7,558,970.86	433,130.17	37.53
PI-06	7,558,959.60	433,143.56	36.22
PI-07	7,558,982.64	433,194.28	35.97
PI-08	7,558,983.45	433,245.15	37.82
PI-09	7,559,016.12	433,298.27	37.57
PI-10	7,559,028.39	433,312.20	38.50
PI-11	7,559,041.74	433,314.16	39.50
PI-12	7,559,049.18	433,311.31	40.00
PI-13	7,559,058.11	433,299.18	40.34
PI-14	7,559,071.72	433,239.77	39.98
PI-15	7,559,083.02	433,174.19	41.04

PAD D STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PD-01	7,559,117.24	433,090.58	43.00
PD-02	7,559,176.74	433,090.58	43.00
PD-03	7,559,176.74	433,240.58	43.00
PD-04	7,559,121.97	433,240.58	43.00
PD-05	7,559,077.76	433,240.58	43.00
PD-06	7,559,086.30	433,204.33	43.00
PD-07	7,559,086.93	433,174.09	43.00
PD-08	7,559,081.90	433,156.97	43.00
PD-09	7,559,076.33	433,133.35	43.00

PAD C STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PC-01	7,559,064.43	432,964.17	43.87
PC-02	7,559,024.15	432,979.50	43.86
PC-03	7,559,040.04	433,003.85	43.64
PC-04	7,559,017.28	432,976.48	41.12
PC-05	7,559,009.66	432,981.39	41.05
PC-06	7,559,033.11	433,009.57	43.60
PC-07	7,559,063.38	433,057.89	43.52
PC-08	7,559,070.80	433,090.58	43.00
PC-09	7,559,114.73	433,086.93	43.47
PC-10	7,559,116.72	433,068.83	43.56
PC-11	7,559,113.24	433,054.04	43.66
PC-12	7,559,121.20	433,053.17	43.71
PC-13	7,559,122.92	433,009.12	43.86
PC-14	7,559,108.11	433,004.73	43.85

PAD B STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PB-01	7,559,173.16	432,994.14	49.49
PB-02	7,559,169.27	432,987.78	49.48
PB-03	7,559,151.46	432,989.70	49.39
PB-04	7,559,146.47	432,992.83	49.36
PB-05	7,559,135.72	433,005.25	49.30
PB-06	7,559,132.08	433,022.95	49.26
PB-07	7,559,132.48	433,055.63	49.23
PB-08	7,559,134.83	433,061.37	49.23
PB-09	7,559,161.67	433,067.92	49.36
PB-10	7,559,166.67	433,066.40	49.38
PB-11	7,559,163.24	433,058.91	49.37
PB-12	7,559,175.26	433,083.23	49.00
PB-13	7,559,180.79	433,083.05	49.50
PB-14	7,559,185.77	433,079.65	50.24
PB-15	7,559,195.22	433,052.24	50.00
PB-16	7,559,158.60	433,072.01	47.00
PB-17	7,559,157.48	433,080.02	47.00
PB-18	7,559,128.98	433,076.64	45.09
PB-19	7,559,123.04	433,073.57	45.09
PB-20	7,559,131.51	433,068.94	44.82
PB-21	7,559,128.15	433,067.20	44.82
PB-22	7,559,139.71	432,976.60	45.50
PB-23	7,559,156.19	432,973.70	46.50
PB-24	7,559,171.16	432,974.14	47.38
PB-25	7,559,179.89	432,979.71	48.00

PAD R STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PR-01	7,559,174.38	432,992.43	48.50
PR-02	7,559,182.97	432,990.53	48.50
PR-03	7,559,243.98	432,977.03	48.50
PR-04	7,559,257.17	433,036.67	48.50
PR-05	7,559,193.47	433,050.72	48.50
PR-06	7,559,184.44	433,052.90	48.50

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

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
A	ISSUED FOR COMMENT	LW	EMR	4JUNE10

REVISIONS

PROFESSIONAL ENGINEER'S STAMP

SRK Consulting
Engineers and Scientists
Vancouver

DESIGN:	DRAWN:	REVIEWED:
LW	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	JUNE 4, 2010

FILE NAME: DN-CMP-03.dwg

NEWMONT
NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008 027

Doris North Project

DRAWING TITLE:
MATERIAL SPECIFICATIONS

DRAWING NO.	SHEET	REVISION NO.
DN-CMP-04	5 OF 5	A

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NOTES

1. Soil classification for these works are based on the Unified Soil Classification System (USCS).
2. On bare tundra surfaces the maximum snow thickness allowed prior to fill placement shall be 102mm (4"). On all other surfaces complete snow removal is required. The Engineer must approve all surfaces prior to placement of any construction material.
3. Snow and ice on construction material must be removed prior to loading for construction use.
4. Due care must be taken when placing fill materials such that no damage occurs to the subgrade and/or culverts. Any damage must be immediately reported to the Engineer.
5. Maximum lift thickness is 1.85m. Staged construction will be required where fill thickness exceeds 1.85m.
6. In areas where staged construction is required, all snow shall be removed and the surface scarified prior to placing the next lift. The Engineer will approve such staged construction.
7. Run of Quarry, and Surfacing material has to be compacted after placement.
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9. It is the Contractor's responsibility to create the construction materials as specified through appropriate crushing. Any deviations must be approved by the Engineer.
10. Construction fill material shall be from approved rock quarries, shall be non-acid generating, free of organic material or similar impurities, as well as snow and ice.
11. Construction fill material must be free of overburden soils. Such unsuitable material shall be disposed of in a designated on site disposal area as outlined in the Contractors' quarry development plan.
12. Construction fill material will not have to be washed to remove blast residues or fines, unless specifically instructed by the Engineer.
13. Run of Quarry (ROQ) shall be well-graded, containing sufficient quantities of gravel, sand, and silt sized material. For fill thickness <0.85m the maximum boulder size shall not exceed 500mm. For fill thickness >0.85m the maximum boulder size shall not exceed 900mm.
14. Surfacing material shall be a well-graded manufactured crush product produced from ROQ material. The screen size shall be no greater than 51mm (2") but no smaller than 32mm ($1\frac{1}{4}$").
15. $\frac{3}{4}$" Finishing material shall be well graded manufactured crush product produced from ROQ material. The screen size shall be no greater than 32mm ($1\frac{1}{4}$") but no smaller than 19mm ($\frac{3}{4}$")
16. ROQ material shall be visually inspected by the Engineer on a routine basis and the Contractor will be advised if the material does not meet the specification in Note 17.
17. The Contractor shall collect samples of the surfacing material directly from the crusher stockpile and submit for laboratory testing including but not limited to grain size distribution, and moisture content at least 1 sample every 8,000m^3. The Engineer may conduct additional sampling and testing as deemed necessary.
18. Sample collection and testing of ROQ, and surface material for geochemical suitability is required and will be carried out by the Site Environmental Manager in accordance with procedures developed by SRK.

Materials List and Quantities

Item	Quantity / Area / Volume		Description
1. Run of Quarry Material	Pad B	16,964 m^3	Volumes derived by Eagle Point 7.2. - Side slopes 1.5H:1V for fill less than 2m - Side slopes 2H:1V for fill greater than 2m - Fills are min. 1.0m - Volumes derived by merging Topography/ As-built to Pad Design Surfaces.
	Pad R Fill	1,134 m^3	
	Pad C	16,197 m^3	
	Pad D Fill	8,309 m^3	
	Pad E/P	31,372 m^3	
	Pad I	14,526 m^3	
	Total Fill:	88,502 m^3	
2. Surface Grade Material	Pad B	1,267 m^3	
	Pad R	1,148 m^3	
	Pad C	1,153 m^3	
	Pad D	2,167 m^3	
	Pad E/P	2,628 m^3	
	Pad I	2,474 m^3	
	Total Fill:	10,837 m^3	
3. Volume of Overburden to be Relocated	Pad E/P	3,000 m^3	Approximate
4. Volume of Rock Cut	Pad R Cut	15,660 m^3	
	Pad D Cut	37,000 m^3	
	Total Cut:	52,660 m^3	

PAD E/P STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PEP-01	7,558,919.48	432,964.90	40.52
PEP-02	7,558,906.59	433,002.59	40.43
PEP-03	7,558,903.36	433,026.07	40.37
PEP-04	7,558,906.62	433,060.82	40.29
PEP-05	7,558,947.15	433,102.43	40.25
PEP-06	7,558,971.42	433,124.60	40.27
PEP-07	7,559,002.17	433,118.72	40.33
PEP-08	7,559,020.66	433,114.68	40.37
PEP-09	7,559,049.99	433,114.54	40.43
PEP-10	7,559,070.39	433,128.67	40.42
PEP-11	7,559,045.52	433,040.74	40.54

PAD I STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PI-01	7,559,066.95	433,130.11	38.63
PI-02	7,559,060.99	433,122.40	38.89
PI-03	7,559,047.97	433,117.24	38.96
PI-04	7,559,019.96	433,119.52	38.00
PI-05	7,558,970.86	433,130.17	37.53
PI-06	7,558,959.60	433,143.56	36.22
PI-07	7,558,982.64	433,194.28	35.97
PI-08	7,558,983.45	433,245.15	37.82
PI-09	7,559,016.12	433,298.27	37.57
PI-10	7,559,028.39	433,312.20	38.50
PI-11	7,559,041.74	433,314.16	39.50
PI-12	7,559,049.18	433,311.31	40.00
PI-13	7,559,058.11	433,299.18	40.34
PI-14	7,559,071.72	433,239.77	39.98
PI-15	7,559,083.02	433,174.19	41.04

PAD C STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PC-01	7,559,064.43	432,964.17	43.87
PC-02	7,559,024.15	432,979.50	43.86
PC-03	7,559,040.04	433,003.85	43.64
PC-04	7,559,017.28	432,976.48	41.12
PC-05	7,559,009.66	432,981.39	41.05
PC-06	7,559,033.11	433,009.57	43.60
PC-07	7,559,063.38	433,057.89	43.52
PC-08	7,559,070.80	433,090.58	43.00
PC-09	7,559,114.73	433,086.93	43.47
PC-10	7,559,116.72	433,068.83	43.56
PC-11	7,559,113.24	433,054.04	43.66
PC-12	7,559,121.20	433,053.17	43.71
PC-13	7,559,122.92	433,009.12	43.86
PC-14	7,559,108.11	433,004.73	43.85

PAD D STAKE-OUT TABLE

ID	Northing	Easting	Base Elev.	Surface Elev.
PD-01	7,559,117.24	433,090.58	43.08	43.23
PD-02	7,559,176.74	433,090.58	43.38	43.53
PD-03	7,559,176.74	433,240.58	43.34	43.49
PD-04	7,559,121.97	433,240.58	43.07	43.22
PD-05	7,559,077.76	433,240.58	42.85	43.00
PD-06	7,559,086.30	433,204.33	42.85	43.00
PD-07	7,559,086.93	433,174.09	42.85	43.00
PD-08	7559081.901	433156.97	42.85	43.00
PD-09	7559076.325	433133.353	42.85	43.00

PAD B STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PB-01	7,559,173.16	432,994.14	49.49
PB-02	7,559,169.27	432,987.78	49.48
PB-03	7,559,151.46	432,989.70	49.39
PB-04	7,559,146.47	432,992.83	49.36
PB-05	7,559,135.72	433,005.25	49.30
PB-06	7,559,132.08	433,022.95	49.26
PB-07	7,559,132.48	433,055.63	49.23
PB-08	7,559,134.83	433,061.37	49.23
PB-09	7,559,161.67	433,067.92	49.36
PB-10	7,559,166.67	433,066.40	49.38
PB-11	7,559,163.24	433,058.91	49.37
PB-12	7,559,175.26	433,083.23	49.00
PB-13	7,559,180.79	433,083.05	49.50
PB-14	7,559,185.77	433,079.65	50.24
PB-15	7,559,195.22	433,052.24	50.00
PB-16	7,559,158.60	433,072.01	47.00
PB-17	7,559,157.48	433,080.02	47.00
PB-18	7,559,128.98	433,076.64	45.09
PB-19	7,559,123.04	433,073.57	45.09
PB-20	7,559,131.51	433,068.94	44.82
PB-21	7,559,128.15	433,067.20	44.82
PB-22	7,559,139.71	432,976.60	45.50
PB-23	7,559,156.19	432,973.70	46.50
PB-24	7,559,171.16	432,974.14	47.38
PB-25	7,559,179.89	432,979.71	48.00

PAD R STAKE-OUT TABLE

ID	Northing	Easting	Base Elev.	Surface Elev.
PR-01	7,559,174.38	432,992.43	47.54	48.13
PR-02	7,559,182.97	432,990.53	47.63	48.16
PR-03	7,559,243.98	432,977.03	48.25	48.50
PR-04	7,559,257.17	433,036.67	48.25	48.50
PR-05	7,559,200.53	433,049.16	47.70	48.20
PR-06	7,559,184.44	433,052.90	47.54	48.14
PR-07	7,559,189.37	433,020.91	47.63	47.80

NO.	DESCRIPTION	CHK'D	APP'D	CLIENT	DATE
1	ISSUED FOR CONSTRUCTION	LW	EMR	DT	30JUNE10
0	ISSUED FOR CONSTRUCTION	LW	EMR		24JUNE10

REFERENCE DRAWINGS — DRAWING NO. / DRAWING TITLE / DRAWING NO. / DRAWING TITLE

REVISIONS

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEER'S STAMP

SRK Consulting Engineers and Scientists Vancouver

DESIGN: LW | DRAWN: MDDS | REVIEWED: EMR
CHECKED: LW | APPROVED: EMR | DATE: JUNE 30, 2010
FILE NAME: DN-DMC-05.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.027 | SRK DWG NO.: DN-DMC-05

Doris North Project

DRAWING TITLE: MATERIAL SPECIFICATIONS (WEST SIDE)

NEMONT DRAWING NO.: HB+D-CIV-CIV-OND-0052 | SHEET: 6 OF 10 | REVISION NO.: 1

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NOTES

1. Soil classification for these works are based on the Unified Soil Classification System (USCS).
2. On bare tundra surfaces the maximum snow thickness allowed prior to fill placement shall be 102mm (4"). On all other surfaces complete snow removal is required. The Engineer must approve all surfaces prior to placement of any construction material.
3. Snow and ice on construction material must be removed prior to loading for construction use.
4. Due care must be taken when placing fill materials such that no damage occurs to the subgrade and/or culverts. Any damage must be immediately reported to the Engineer.
5. Maximum lift thickness is 1.85m. Staged construction will be required where fill thickness exceeds 1.85m.
6. In areas where staged construction is required, all snow shall be removed and the surface scarified prior to placing the next lift. The Engineer will approve such staged construction.
7. Run of Quarry, and Surfacing material has to be compacted after placement.
8. Compaction will be a field specification, based on trial compaction tests to be carried out by the Contractor to the satisfaction of the Engineer.
9. It is the Contractor's responsibility to create the construction materials as specified through appropriate crushing. Any deviations must be approved by the Engineer.
10. Construction fill material shall be from approved rock quarries, shall be non-acid generating, free of organic material or similar impurities, as well as snow and ice.
11. Construction fill material must be free of overburden soils. Such unsuitable material shall be disposed of in a designated on site disposal area as outlined in the Contractors' quarry development plan.
12. Construction fill material will not have to be washed to remove blast residues or fines, unless specifically instructed by the Engineer.
13. Run of Quarry (ROQ) shall be well-graded, containing sufficient quantities of gravel, sand, and silt sized material. For fill thickness <0.85m the maximum boulder size shall not exceed 500mm. For fill thickness >0.85m the maximum boulder size shall not exceed 900mm.
14. Surfacing material shall be a well-graded manufactured crush product produced from ROQ material. The screen size shall be no greater than 51mm (2") but no smaller than 32mm ($1\frac{1}{4}$").
15. $\frac{3}{4}$" Finishing material shall be well graded manufactured crush product produced from ROQ material. The screen size shall be no greater than 32mm ($1\frac{1}{4}$") but no smaller than 19mm ($\frac{3}{4}$")
16. ROQ material shall be visually inspected by the Engineer on a routine basis and the Contractor will be advised if the material does not meet the specification in Note 17.
17. The Contractor shall collect samples of the surfacing material directly from the crusher stockpile and submit for laboratory testing including but not limited to grain size distribution, and moisture content at least 1 sample every 8,000m^3. The Engineer may conduct additional sampling and testing as deemed necessary.
18. Sample collection and testing of ROQ, and surface material for geochemical suitability is required and will be carried out by the Site Environmental Manager in accordance with procedures developed by SRK.

Materials List and Quantities

Item	Quantity / Area / Volume		Description
1. Run of Quarry Material	Pad B	16,964 m^3	Volumes derived by Eagle Point 7.2. - Side slopes 1.5H:1V for fill less than 2m - Side slopes 2H:1V for fill greater than 2m - Fills are min. 1.0m - Volumes derived by merging Topography/ As-built to Pad Design Surfaces.
	Pad R Fill	1,134 m^3	
	Pad C	16,197 m^3	
	Pad D Fill	8,309 m^3	
	Pad E/P	31,372 m^3	
	Pad I	14,526 m^3	
	Total Fill:	88,502 m^3	
2. Surface Grade Material	Pad B	1,267 m^3	
	Pad R	1,148 m^3	
	Pad C	1,153 m^3	
	Pad D	2,167 m^3	
	Pad E/P	2,628 m^3	
	Pad I	2,474 m^3	
	Total Fill:	10,837 m^3	
3. Volume of Overburden to be Relocated	Pad E/P	3,000 m^3	Approximate
4. Volume of Rock Cut	Pad R Cut	15,660 m^3	
	Pad D Cut	37,000 m^3	
	Total Cut:	52,660 m^3	

PAD E/P STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PEP-01	7,558,919.48	432,964.90	40.52
PEP-02	7,558,906.59	433,002.59	40.43
PEP-03	7,558,903.36	433,026.07	40.37
PEP-04	7,558,906.62	433,060.82	40.29
PEP-05	7,558,947.15	433,102.43	40.25
PEP-06	7,558,971.42	433,124.60	40.27
PEP-07	7,559,002.17	433,118.72	40.33
PEP-08	7,559,020.66	433,114.68	40.37
PEP-09	7,559,049.99	433,114.54	40.43
PEP-10	7,559,070.39	433,128.67	40.42
PEP-11	7,559,045.52	433,040.74	40.54

PAD I STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PI-01	7,559,066.95	433,130.11	38.63
PI-02	7,559,060.99	433,122.40	38.89
PI-03	7,559,047.97	433,117.24	38.96
PI-04	7,559,019.96	433,119.52	38.00
PI-05	7,558,970.86	433,130.17	37.53
PI-06	7,558,959.60	433,143.56	36.22
PI-07	7,558,982.64	433,194.28	35.97
PI-08	7,558,983.45	433,245.15	37.82
PI-09	7,559,016.12	433,298.27	37.57
PI-10	7,559,028.39	433,312.20	38.50
PI-11	7,559,041.74	433,314.16	39.50
PI-12	7,559,049.18	433,311.31	40.00
PI-13	7,559,058.11	433,299.18	40.34
PI-14	7,559,071.72	433,239.77	39.98
PI-15	7,559,083.02	433,174.19	41.04

PAD C STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PC-01	7,559,064.43	432,964.17	43.87
PC-02	7,559,024.15	432,979.50	43.86
PC-03	7,559,040.04	433,003.85	43.64
PC-04	7,559,017.28	432,976.48	41.12
PC-05	7,559,009.66	432,981.39	41.05
PC-06	7,559,033.11	433,009.57	43.60
PC-07	7,559,063.38	433,057.89	43.52
PC-08	7,559,070.80	433,090.58	43.00
PC-09	7,559,114.73	433,086.93	43.47
PC-10	7,559,116.72	433,068.83	43.56
PC-11	7,559,113.24	433,054.04	43.66
PC-12	7,559,121.20	433,053.17	43.71
PC-13	7,559,122.92	433,009.12	43.86
PC-14	7,559,108.11	433,004.73	43.85

PAD D STAKE-OUT TABLE

ID	Northing	Easting	Base Elev.	Surface Elev.
PD-01	7,559,117.24	433,090.58	43.25	43.40
PD-02	7,559,176.74	433,090.58	43.85	44.00
PD-03	7,559,176.74	433,240.58	43.85	44.00
PD-04	7,559,121.97	433,240.58	43.25	43.40
PD-05	7,559,077.76	433,240.58	42.85	43.00
PD-06	7,559,086.30	433,204.33	42.85	43.00
PD-07	7,559,086.93	433,174.09	42.85	43.00
PD-08	7559081.901	433156.97	42.85	43.00
PD-09	7559076.325	433133.353	42.85	43.00

PAD B STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PB-01	7,559,173.16	432,994.14	49.49
PB-02	7,559,169.27	432,987.78	49.48
PB-03	7,559,151.46	432,989.70	49.39
PB-04	7,559,146.47	432,992.83	49.36
PB-05	7,559,135.72	433,005.25	49.30
PB-06	7,559,132.08	433,022.95	49.26
PB-07	7,559,132.48	433,055.63	49.23
PB-08	7,559,134.83	433,061.37	49.23
PB-09	7,559,161.67	433,067.92	49.36
PB-10	7,559,166.67	433,066.40	49.38
PB-11	7,559,163.24	433,058.91	49.37
PB-12	7,559,175.26	433,083.23	49.00
PB-13	7,559,180.79	433,083.05	49.50
PB-14	7,559,185.77	433,079.65	50.24
PB-15	7,559,195.22	433,052.24	50.00
PB-16	7,559,158.60	433,072.01	47.00
PB-17	7,559,157.48	433,080.02	47.00
PB-18	7,559,128.98	433,076.64	45.09
PB-19	7,559,123.04	433,073.57	45.09
PB-20	7,559,131.51	433,068.94	44.82
PB-21	7,559,128.15	433,067.20	44.82
PB-22	7,559,139.71	432,976.60	45.50
PB-23	7,559,156.19	432,973.70	46.50
PB-24	7,559,171.16	432,974.14	47.38
PB-25	7,559,179.89	432,979.71	48.00

PAD R STAKE-OUT TABLE

ID	Northing	Easting	Base Elev.	Surface Elev.
PR-01	7,559,174.38	432,992.43	47.54	48.13
PR-02	7,559,182.97	432,990.53	47.63	48.16
PR-03	7,559,243.98	432,977.03	48.25	48.50
PR-04	7,559,257.17	433,036.67	48.25	48.50
PR-05	7,559,200.53	433,049.16	47.70	48.20
PR-06	7,559,184.44	433,052.90	47.54	48.14
PR-07	7,559,189.37	433,020.91	47.63	47.80

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

NO.	DESCRIPTION	CHK'D	APP'D	DATE
0	ISSUED FOR CONSTRUCTION	LW	EMR	24JUNE10
REVISIONS				

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEER'S STAMP

SRK Consulting Engineers and Scientists Vancouver

DESIGN:	DRAWN:	REVIEWED:
LW	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	JUNE 24, 2010

FILE NAME: DN-DMC-05.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008 027 | SRK DWG NO.: DN-DMC-05

Doris North Project

DRAWING TITLE: MATERIAL SPECIFICATIONS (WEST SIDE)

NEMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0043	6 OF 6	0

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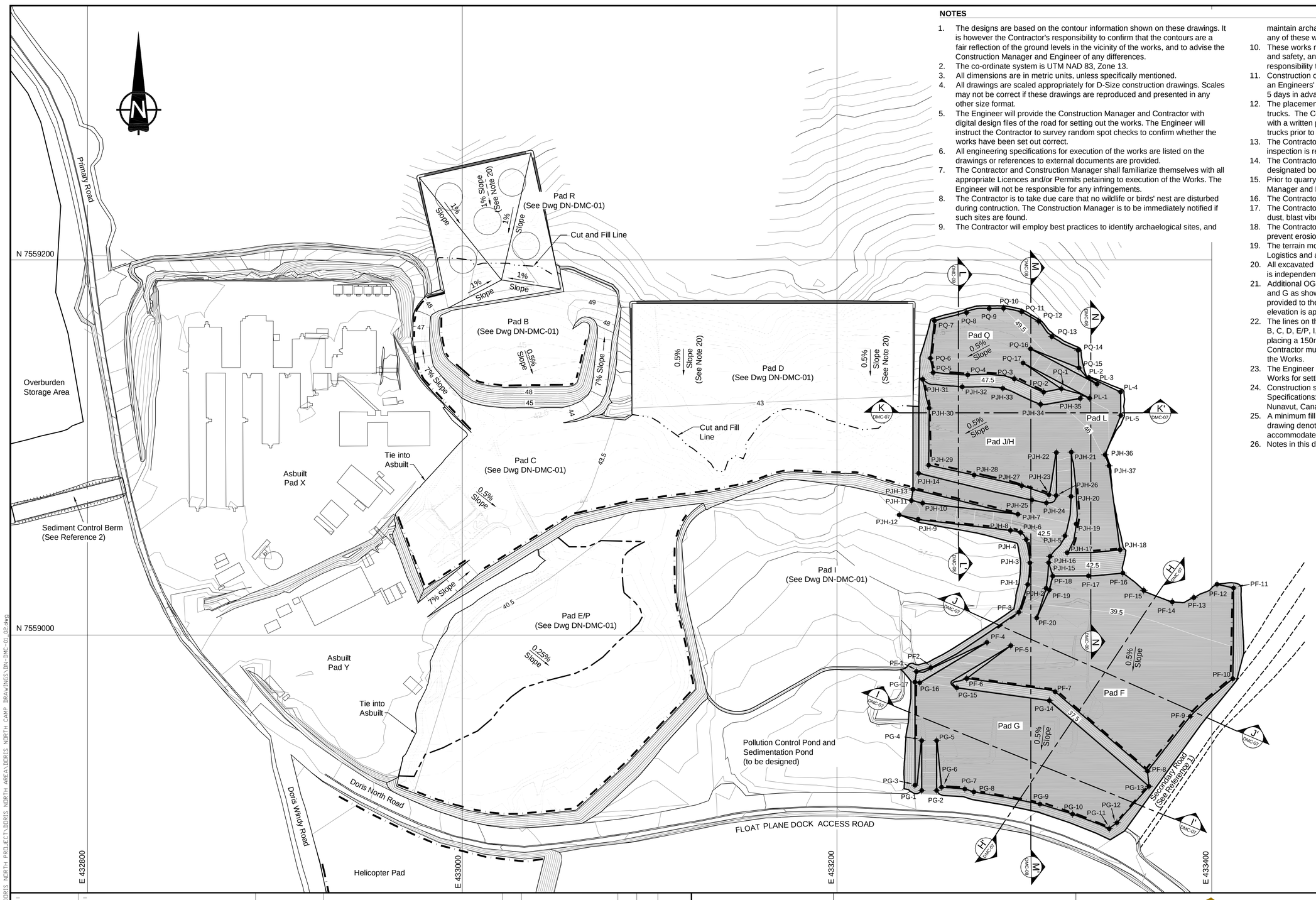

NOTES

1. The designs are based on the 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.
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 of the road 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. All engineering specifications for execution of the works are listed on the drawings or references to external documents are provided.
7. The Contractor and Construction Manager shall familiarize themselves with all appropriate Licences and/or Permits petaining to execution of the Works. The Engineer will not be responsible for any infringements.
8. The Contractor is to take due care that no wildlife or birds' nest are disturbed during contruction. The Construction Manager is to be immediately notified if such sites are found.
9. The Contractor will employ best practices to identify archaelogical sites, and maintain archaelogical site exclusion boundaries of 30m minimum radius from any of these works.
10. These works must be executed in accordance with the standard HBML health and safety, and enviromental standards and protocols. It is the Contractors responsibility to familiarize himself with these documents.
11. Construction of the camp pad may not commence without on-site presence of an Engineers' representative. The Contractor shall notify the Engineer at least 5 days in advance of intended construction start-up.
12. The placement of rockfill material will be by CAT 773 and CAT 730 haul trucks. The Contractor must supply the Construction Manager and Engineer with a written procedure for how these works will be constructed using these trucks prior to the start of any construction.
13. The Contractor shall notify the Engineer at least 3 days in advance if an inspection is required for acceptance of works at any stage.
14. The Contractor is responsible to develop rock quarries within the general designated boundaries shown on this drawing.
15. Prior to quarry development, the Contractor must provide the Construction Manager and Engineer with a detailed quarry development plan for approval.
16. The Contractor is responsible for creating access to the rock quarries.
17. The Contractor will employ best practices to control at source run-off, fugitive dust, blast vibrations, and fly rock.
18. The Contractor shall employ best practices to ensure sediment control and to prevent erosion.
19. The terrain model is based on current original ground survey by Nuna Logistics and as-built survey by SNC Lavalin.
20. All excavated bedrock surfaces are to be free draining as shown. This slope is independent of the final finished surface elevation and grade.
21. Additional OG survey is required along the eastern section of Pads Q, H/J, F and G as shown on this drawing. Until this survey has been completed and provided to the Engineer, the Engineer cannot confirm that the grade and elevation is appropriate in those areas.
22. The lines on this drawing provides the final grade and elevation of all pads (R, B, C, D, E/P, I, H/J, Q, F and G). These grades include an allowance for placing a 150mm thick layer of surfacing grade material on all surfaces. The Contractor must make the appropriate adjustments to the grades set out for the Works.
23. The Engineer provided the Contractor and Owner with and ACAD file of the Works for setting out the works as indicated on this drawing.
24. Construction shall be in accordance with the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay project, Nunavut, Canada, revision C -Issue for Construction.
25. A minimum fill of 2m rock must be placed over the overburden pile. The drawing denotes a portion of the pile that will have to be relocated in order to accommodate this requirement.
26. Notes in this drawing apply to all other active drawings.

LEGEND

- New Camp Pads
- Stake-out Point
- Future Camp Pads/Road
- Existing Buildings
- Safety Berms (See Typical Berm Barrier Options Detail on Dwg DN-DMC-03)

REFERENCES

1. For detailed road alignment refer to Engineering Drawings for the Doris North Secondary Road, Doris North Project, Nunavut, Canada, Revision 0, SRK 2010.
2. For detailed design of the fuel tank farm refer to Engineering Drawings for the Doris North Fuel Tank Farm, Doris North Project, Nunavut, Canada, Revision A, SRK 2010.
3. For detailed design of sediment control berm refer to drawing Doris North Overburden Storage Area and Sedimentation Control Berm Plan and Sections, Revision 0, April 12, 2010.

0 10 20 30 40 50
Scale in Metres

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

NO.	DESCRIPTION	CHK'D	APP'D	DATE
0	ISSUED FOR CONSTRUCTION	LW	EMR	24JUNE10

REVISIONS

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEERS STAMP

SRK Consulting
Engineers and Scientists
Vancouver

DESIGN:	DRAWN:	REVIEWED:
LW	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	JUNE 24, 2010

FILE NAME: DN-DMC-06_08.dwg

NEWMONT NORTH AMERICA

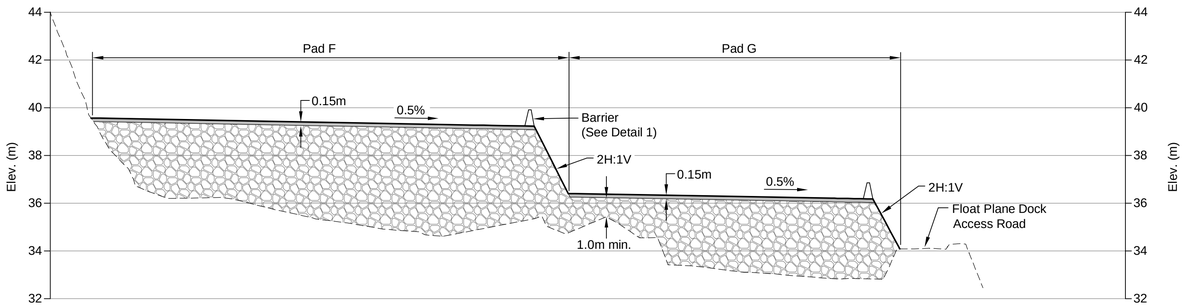
HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.027 SRK DWG NO.: DN-DMC-06

DORIS NORTH PROJECT

DRAWING TITLE:
DORIS NORTH CAMP
GRADING PLAN
(EAST SIDE)

NEMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0048	7 OF 10	0



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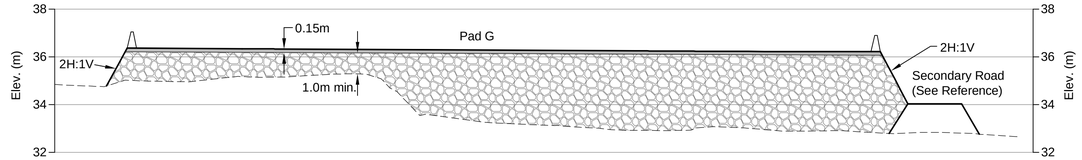

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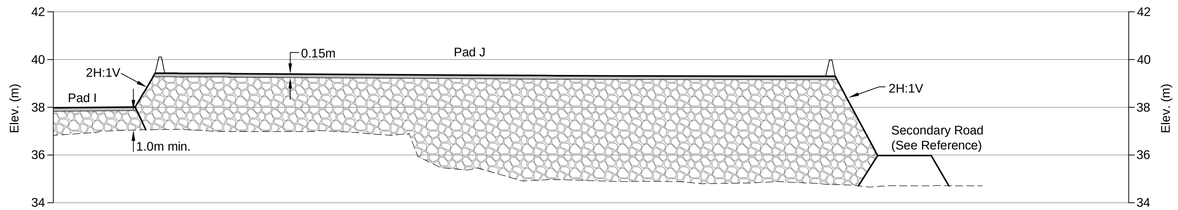

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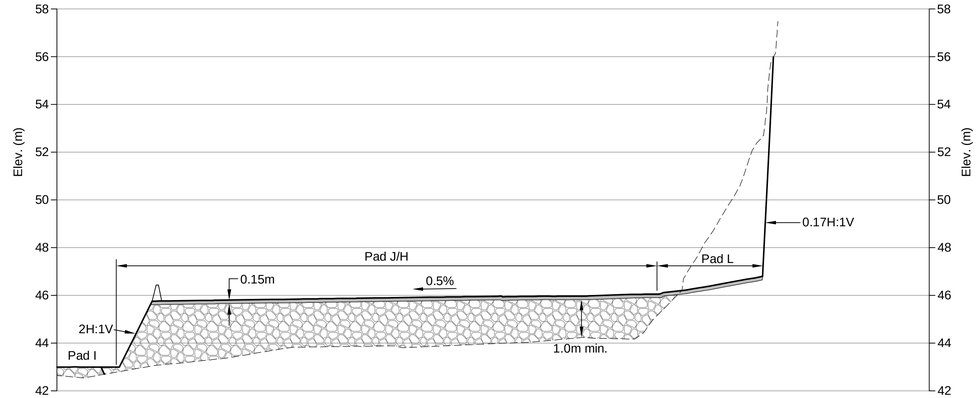

K **SECTION**

REFERENCE

For detailed road alignment refer to Engineering Drawings for the Doris North Secondary Road, Doris North Project, Nunavut, Canada, Revision 0, SRK 2010.

LEGEND

- Existing ground surface
- Surfacing Material
- Run of Quarry Material

NOTES

1. All dimensions in metres unless noted otherwise.
2. Where the thickness of the pads is greater than 3.0m allow for the placement of barriers.
3. The barriers are to consist of boulders larger than 1m in diameter, jersey-barriers (1.82 long X 1.37m high X 0.61m wide) or a rock fill berm 0.5m high. Maximum spacing between barriers is 3.3m.
4. Notes in this drawing apply to all other active drawings.

0 5 10 15 20 25
Scale in Metres (Horizontal)

0 1 2 3 4 5
Scale in Metres (Vertical)

4X VERTICAL EXAGGERATION

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

NO.	DESCRIPTION	CHK'D	APP'D	DATE
0	ISSUED FOR CONSTRUCTION	LW	EMR	24JUNE10

REVISIONS

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEERS STAMP

SRK Consulting Engineers and Scientists Vancouver

DESIGN:	DRAWN:	REVIEWED:
LW	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	JUNE 24, 2010

FILE NAME: DN-DMC-06_08.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.027 | SRK DWG NO.: DN-DMC-07

DORIS NORTH PROJECT

DRAWING TITLE:
DORIS NORTH CAMP
SECTIONS AND DETAILS
(EAST SIDE)

NEMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0049	8 OF 10	0

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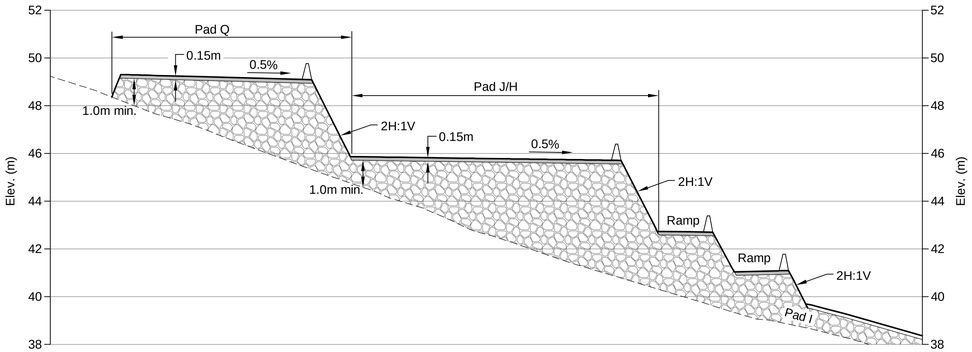

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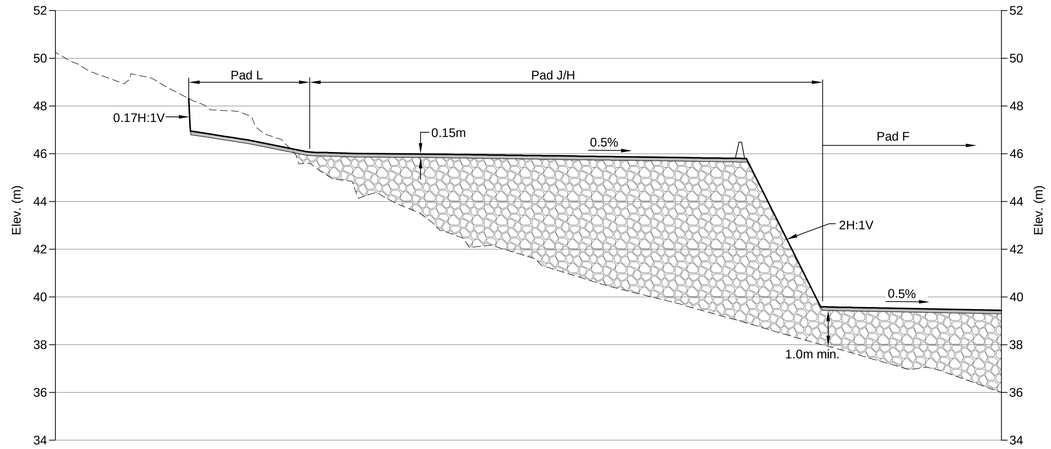

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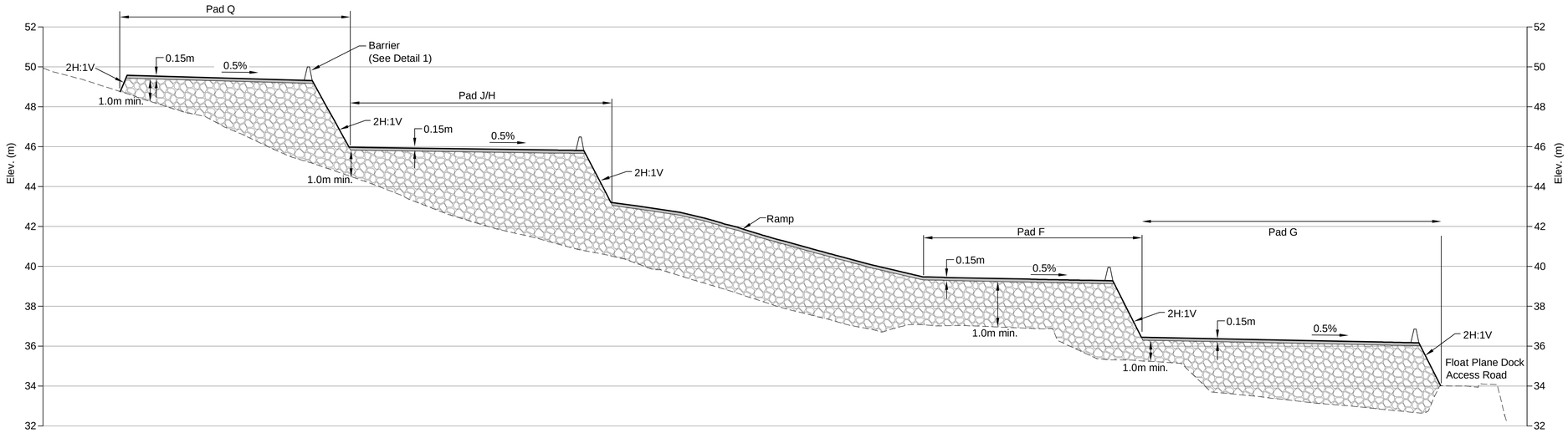

M **SECTION**

REFERENCE

For detailed road alignment refer to Engineering Drawings for the Doris North Secondary Road, Doris North Project, Nunavut, Canada, Revision 0, SRK 2010.

LEGEND

- Existing ground surface
- Surfacing Material
- Run of Quarry Material

NOTES

1. All dimensions in metres unless noted otherwise.
2. Where the thickness of the pads is greater than 3.0m allow for the placement of barriers.
3. The barriers are to consist of boulders larger than 1m in diameter, jersey-barriers (1.82 long X 1.37m high X 0.61m wide) or a rock fill berm 0.5m high. Maximum spacing between barriers is 3.3m.
4. Notes in this drawing apply to all other active drawings.

0 5 10 15 20 25 Scale in Metres (Horizontal)
0 2 4 6 8 10 Scale in Metres (Vertical
4X VERTICAL EXAGGERATION

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

NO.	DESCRIPTION	CHK'D	APP'D	DATE
0	ISSUED FOR CONSTRUCTION	LW	EMR	24JUNE10

REVISIONS

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEERS STAMP

SRK Consulting
Engineers and Scientists
Vancouver

DESIGN:	DRAWN:	REVIEWED:
LW	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	JUNE 24, 2010

FILE NAME: DN-DMC-06_08.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

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

DORIS NORTH PROJECT

DRAWING TITLE:
DORIS NORTH CAMP
SECTIONS AND DETAILS
(EAST SIDE)

NEMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0050	9 OF 10	0

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NOTES

1. Soil classification for these works are based on the Unified Soil Classification System (USCS).
2. On bare tundra surfaces the maximum snow thickness allowed prior to fill placement shall be 102mm (4"). On all other surfaces complete snow removal is required. The Engineer must approve all surfaces prior to placement of any construction material.
3. Snow and ice on construction material must be removed prior to loading for construction use.
4. Due care must be taken when placing fill materials such that no damage occurs to the subgrade and/or culverts. Any damage must be immediately reported to the Engineer.
5. Maximum lift thickness is 1.85m. Staged construction will be required where fill thickness exceeds 1.85m.
6. In areas where staged construction is required, all snow shall be removed and the surface scarified prior to placing the next lift. The Engineer will approve such staged construction.
7. Run of Quarry, and Surfacing material has to be compacted after placement.
8. Compaction will be a field specification, based on trial compaction tests to be carried out by the Contractor to the satisfaction of the Engineer.
9. It is the Contractor's responsibility to create the construction materials as specified through appropriate crushing. Any deviations must be approved by the Engineer.
10. Construction fill material shall be from approved rock quarries, shall be non-acid generating, free of organic material or similar impurities, as well as snow and ice.
11. Construction fill material must be free of overburden soils. Such unsuitable material shall be disposed of in a designated on site disposal area as outlined in the Contractors' quarry development plan.
12. Construction fill material will not have to be washed to remove blast residues or fines, unless specifically instructed by the Engineer.
13. Run of Quarry (ROQ) shall be well-graded, containing sufficient quantities of gravel, sand, and silt sized material. For fill thickness <0.85m the maximum boulder size shall not exceed 500mm. For fill thickness >0.85m the maximum boulder size shall not exceed 900mm.
14. Surfacing material shall be a well-graded manufactured crush product produced from ROQ material. The screen size shall be no greater than 51mm (2") but no smaller than 32mm ($1\frac{1}{4}$").
15. $\frac{3}{4}$" Finishing material shall be well graded manufactured crush product produced from ROQ material. The screen size shall be no greater than 32mm ($1\frac{1}{4}$") but no smaller than 19mm ($\frac{3}{4}$")
16. ROQ material shall be visually inspected by the Engineer on a routine basis and the Contractor will be advised if the material does not meet the specification in Note 17.
17. The Contractor shall collect samples of the surfacing material directly from the crusher stockpile and submit for laboratory testing including but not limited to grain size distribution, and moisture content at least 1 sample every 8,000m^3. The Engineer may conduct additional sampling and testing as deemed necessary.
18. Sample collection and testing of ROQ, and surface material for geochemical suitability is required and will be carried out by the Site Environmental Manager in accordance with procedures developed by SRK.

Materials List and Quantities

Item	Quantity / Area / Volume		Description
1. Run of Quarry Material	Pad G/F	48,740 m^3	Volumes derived by Eagle Point 7.2. - Side slopes 1.5H:1V for fill less than 2m - Side slopes 2H:1V for fill greater than 2m - Fills are min. 1.0m - Volumes derived by merging Topography/ As-built to Pad Design Surfaces.
	Pad J/H	26,440 m^3	
	Pad Q	6,820 m^3	
	Total Fill:	82,000 m^3	
	Total Cut: (Pad L)	1,293 m^3	
2. Surface Grade Material	Pad G/F	2,200 m^3	
	Pad J/H	1,100 m^3	
	Pad L	75 m^3	
	Pad Q	380 m^3	
	Total Fill:	3,755 m^3	
3. Volume of Rock Cut	Pad L	1,293 m^3	
	Total Fill:	1,293 m^3	

PAD G STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PG-1	7,558,917.14	433,245.19	34.33
PG-2	7,558,917.14	433,253.19	34.33
PG-3	7,558,919.92	433,241.61	36.18
PG-4	7,558,943.72	433,245.19	36.19
PG-5	7,558,943.72	433,253.19	36.19
PG-6	7,558,918.85	433,255.82	36.18
PG-7	7,558,917.89	433,268.24	36.18
PG-8	7,558,916.38	433,273.04	36.18
PG-9	7,558,909.84	433,308.33	36.17
PG-10	7,558,904.51	433,325.76	36.15
PG-11	7,558,896.74	433,345.32	36.14
PG-12	7,558,899.95	433,349.42	36.16
PG-13	7,558,919.31	433,366.52	36.28
PG-14	7,558,965.06	433,313.33	36.45
PG-15	7,558,971.88	433,263.96	36.45
PG-16	7,558,974.62	433,244.15	36.46
PG-17	7,558,974.97	433,241.61	36.46

PAD F STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PF-1	7,558,980.57	433,242.39	39.29
PF-2	7,558,982.64	433,250.10	39.30
PF-3	7,559,012.23	433,297.05	39.47
PF-4	7,558,996.12	433,280.03	39.39
PF-5	7,558,994.36	433,292.76	39.38
PF-6	7,558,976.86	433,269.22	39.28
PF-7	7,558,969.78	433,316.43	39.27
PF-8	7,558,927.43	433,365.74	39.11
PF-9	7,558,956.65	433,388.55	39.29
PF-10	7,558,976.76	433,411.24	39.42
PF-11	7,559,025.12	433,411.70	39.65
PF-12	7,559,027.09	433,402.83	39.65
PF-13	7,559,020.01	433,390.48	39.59
PF-14	7,559,017.67	433,378.95	39.56
PF-15	7,559,023.83	433,363.75	39.56
PF-16	7,559,033.08	433,352.56	39.61
PF-17	7,559,031.57	433,334.20	39.59
PF-18	7,559,031.46	433,315.17	39.58
PF-19	7,559,024.15	433,313.39	39.54
PF-20	7,559,009.14	433,306.58	39.46

PAD L STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PL-1	7,559,126.33	433,334.82	46.57
PL-2	7,559,137.40	433,334.44	47.82
PL-3	7,559,133.85	433,338.80	46.62
PL-4	7,559,129.64	433,351.42	46.80
PL-5	7,559,117.13	433,351.48	46.80

PAD J/H STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PJH-1	7,559,026.96	433,301.80	40.49
PJH-2	7,559,024.92	433,311.62	40.50
PJH-3	7,559,038.53	433,302.95	41.30
PJH-4	7,559,050.91	433,301.00	42.19
PJH-5	7,559,052.90	433,321.65	42.50
PJH-6	7,559,054.73	433,298.01	42.50
PJH-7	7,559,064.41	433,296.57	42.65
PJH-8	7,559,055.81	433,292.60	42.50
PJH-9	7,559,061.74	433,243.35	40.00
PJH-10	7,559,070.37	433,245.72	40.08
PJH-11	7,559,071.75	433,239.69	39.97
PJH-12	7,559,064.08	433,233.21	39.41
PJH-13	7,559,077.76	433,240.58	43.00
PJH-14	7,559,086.29	433,243.58	42.99
PJH-15	7,559,038.62	433,312.98	41.30
PJH-16	7,559,041.97	433,313.75	41.54
PJH-17	7,559,043.91	433,322.85	45.76
PJH-18	7,559,045.51	433,351.10	45.86
PJH-19	7,559,059.26	433,327.68	45.83
PJH-20	7,559,073.95	433,324.94	44.00
PJH-21	7,559,097.56	433,325.07	45.90
PJH-22	7,559,097.31	433,317.07	45.90
PJH-23	7,559,074.83	433,313.15	45.80
PJH-24	7,559,070.49	433,311.79	43.50
PJH-25	7,559,072.03	433,304.08	43.00
PJH-26	7,559,074.43	433,316.96	44.00
PJH-27	7,559,079.67	433,298.63	45.80
PJH-28	7,559,085.34	433,273.21	45.73
PJH-29	7,559,090.58	433,248.91	45.66
PJH-30	7,559,121.06	433,249.20	45.77
PJH-31	7,559,136.34	433,245.76	45.65
PJH-32	7,559,132.38	433,266.86	45.87
PJH-33	7,559,131.58	433,288.51	45.95
PJH-34	7,559,123.06	433,308.68	45.99
PJH-35	7,559,126.18	433,329.85	46.07
PJH-36	7,559,096.16	433,343.08	46.41
PJH-37	7,559,090.29	433,345.20	46.00

PAD J/H STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
PQ-1	7,559,131.39	433,319.74	49.43
PQ-2	7,559,129.58	433,310.31	49.35
PQ-3	7,559,136.68	433,294.61	49.28
PQ-4	7,559,138.75	433,269.81	49.12
PQ-5	7,559,139.99	433,251.34	48.99
PQ-6	7,559,147.66	433,249.88	49.04
PQ-7	7,559,167.67	433,252.02	49.19
PQ-8	7,559,171.97	433,269.13	49.34
PQ-9	7,559,174.14	433,281.23	49.45
PQ-10	7,559,174.27	433,288.92	49.50
PQ-11	7,559,172.34	433,298.58	49.56
PQ-12	7,559,167.34	433,307.69	49.59
PQ-13	7,559,159.20	433,314.65	49.58
PQ-14	7,559,151.90	433,328.68	49.63
PQ-15	7,559,142.45	433,329.17	49.57
PQ-16	7,559,152.65	433,303.31	49.46
PQ-17	7,559,145.11	433,299.32	49.38

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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	24JUNE10

REVISIONS

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEER'S STAMP

SRK Consulting Engineers and Scientists Vancouver

DESIGN: LW | DRAWN: MDDS | REVIEWED: EMR | CHECKED: LW | APPROVED: EMR | DATE: JUNE 24, 2010

FILE NAME: DN–DMC–09.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008 027 | SRK DWG NO.: DN-DMC-09

Doris North Project

DRAWING TITLE: MATERIAL SPECIFICATIONS (EAST SIDE)

NEMONT DRAWING NO.: HB+D-CIV-CIV-OND-0051 | SHEET: 10 OF 10 | REVISION NO.: 0

Asbuilt
Pad X

Pad C

Pad I

Pad F

Asbuilt
Pad Y

Pad E/P

Pad G

40.5

N 7559000

N 7558900

E 433000

E 433200

E 433400

Pollution Control Pond

Sedimentation Pond

FSL 35.3m

FSL 36.7m

Existing Camp Pad to be removed

Float Plane Dock Access Road

Secondary Road (See Reference 1)

Doris Windy Road (See Reference 2)

Helicopter Pad (Asbuilt) (See Reference 3)

Existing Turn out to be removed

2-250mm Ø Spillway Culverts (See Detail 8 DN-DMC-014)

Rip Rap Apron (See Detail 8 DN-DMC-014)

2-250mm Ø Spillway Culverts (See Detail 9 DN-DMC-014)

Rip Rap Apron (See Detail 9 DN-DMC-014)

Approximate location of Existing Culvert to be removed

Existing Pipeline must be relocated as agreed to by HBML

The Termination of the Wider Float Plane Dock Access Road into the existing alignment will be determined in the field. The final location will be determined such that appropriate traffic design criteria can be achieved

PP-01 PP-02 PP-03 PP-04 PP-05 PP-06 PP-07 PP-08 PP-09 PP-10 PP-11 PP-12 PP-13 PP-14 PP-15 PP-16 PP-17 PP-18 PP-19

SP-01 SP-02 SP-03 SP-04 SP-05 SP-06 SP-07 SP-08 SP-09 SP-10 SP-11 SP-12

RD-01 RD-02 RD-03 RD-04 RD-05 RD-06 RD-07 RD-08 RD-09 RD-10 RD-11 RD-12 RD-13 RD-14 RD-15 RD-16 RD-17 RD-18 RD-19 RD-20 RD-21 RD-22 RD-23 RD-24 RD-25 RD-26 RD-27

0+000 0+025 0+050 0+075 0+100 0+125 0+150 0+175 0+200 0+225 0+250 0+275 0+300 0+325 0+350 0+375 0+400 0+425 0+450 0+475 0+486.25

P (DMC-011) Q (DMC-011) R (DMC-011) R' (DMC-011) S (DMC-011) T (DMC-011) O (DMC-011) P1 (DMC-011)

LEGEND

- New Ponds and Raised Road
- Stake-out Point
- Existing Buildings
- Safety Berms (See Typical Berm Barrier Options Detail on Dwg DN-DMC-03)

REFERENCES

1. For detailed road alignment refer to Engineering Drawings for the Doris North Secondary Road, Doris North Project, Nunavut, Canada, Revision 0, SRK 2010.
2. For detailed road alignment refer to Engineering Drawings for the Doris-Windy All Weather Road, Doris Infrastructure Project, Nunavut, Canada, Revision 4, SRK 2010.
3. For detailed design refer to Engineering drawings from the Laydown Pad Expansions, Doris North Project, Nunavut, Canada, Revision 0, SRK 2010.

0 5 10 15 20 25
Scale in Metres

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

NO.	DESCRIPTION	CHK'D	APP'D	DATE
0	ISSUED FOR CONSTRUCTION	LW	EMR	29SEP10
A	ISSUED FOR REVIEW	LW	EMR	28JUL10

REVISIONS

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEERS STAMP

SRK Consulting
Engineers and Scientists
Vancouver

DESIGN:	DRAWN:	REVIEWED:
MK	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	Sept. 29, 2010

FILE NAME: DN-DMC-010.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.027 SRK DWG NO.: DN-DMC-010

DORIS NORTH PROJECT

DRAWING TITLE:

Sedimentation and Pollution Control Ponds Grading Plan

NEMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0070	11 OF 18	0

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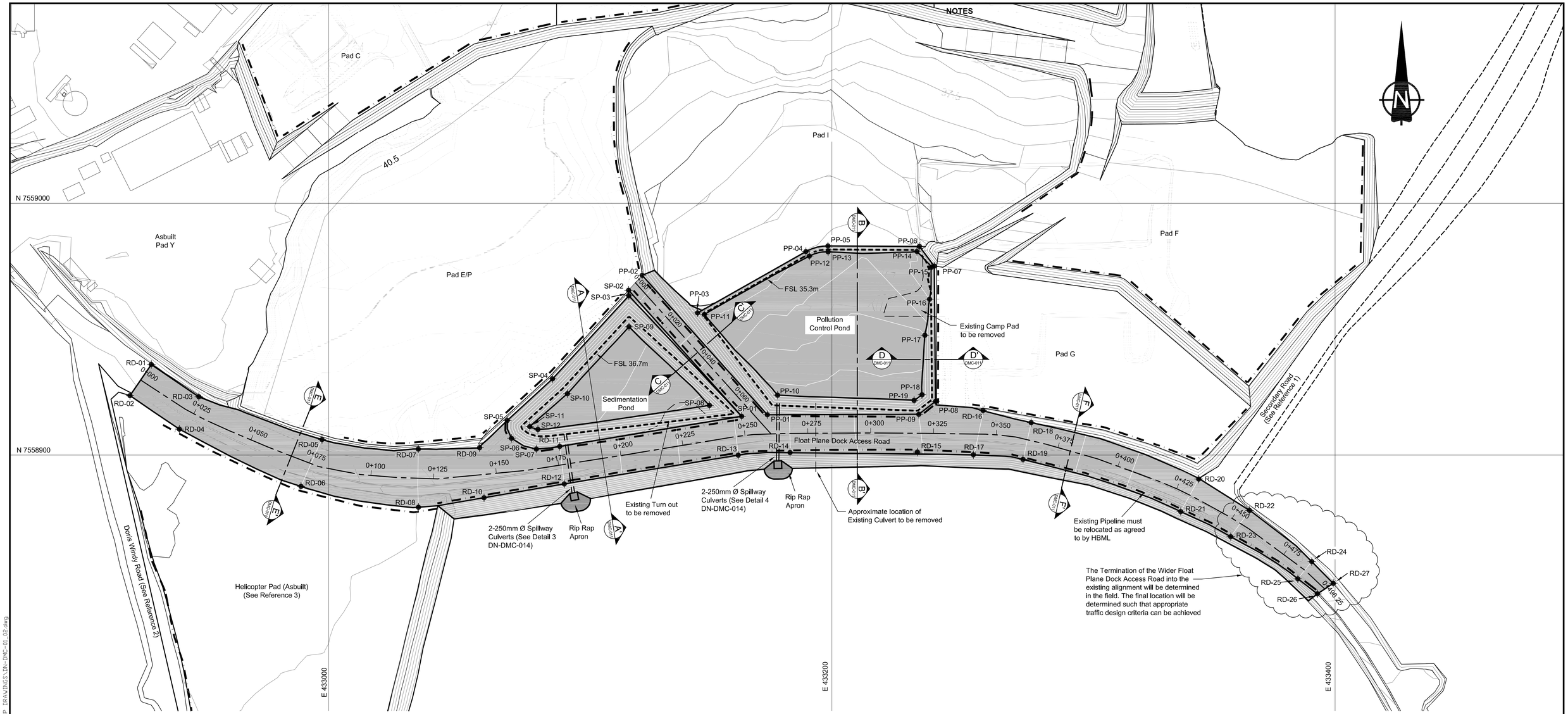
NOTES



LEGEND

- New Ponds and Raised Road
- Stake-out Point
- Existing Buildings
- Safety Berms (See Typical Berm Barrier Options Detail on Dwg DN-DMC-03)

REFERENCES

1. For detailed road alignment refer to Engineering Drawings for the Doris North Secondary Road, Doris North Project, Nunavut, Canada, Revision 0, SRK 2010.
2. For detailed road alignment refer to Engineering Drawings for the Doris-Windy All Weather Road, Doris Infrastructure Project, Nunavut, Canada, Revision 4, SRK 2010.
3. For detailed design refer to Engineering drawings from the Laydown Pad Expansions, Doris North Project, Nunavut, Canada, Revision 0, SRK 2010.

0 5 10 15 20 25
Scale in Metres

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DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		
DMC-011	SECTIONS AND DETAILS		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
A	ISSUED FOR REVIEW	LW	EMR	28JUL10

REVISIONS

PROFESSIONAL ENGINEERS STAMP

SRK Consulting
Engineers and Scientists
Vancouver

DESIGN:	DRAWN:	REVIEWED:
MK	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	JULY 28, 2010

FILE NAME: DN-DMC-010.dwg

NEWMONT
NORTH AMERICA

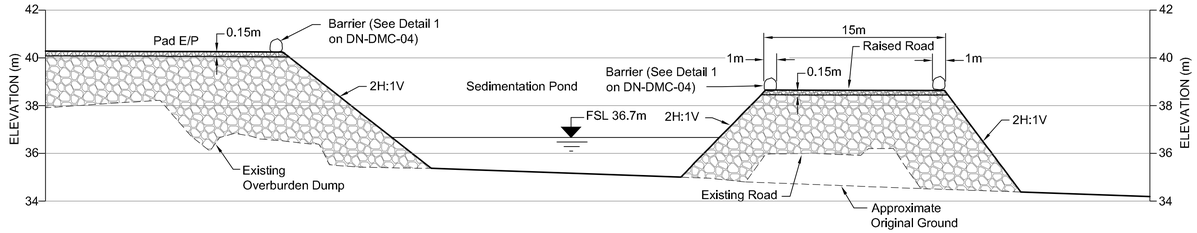
HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.027 | SRK DWG NO.: DN-DMC-010

DORIS NORTH PROJECT

DRAWING TITLE:
Sedimentation and Pollution Control Ponds
Grading Plan

NEMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0070	11 OF 15	A

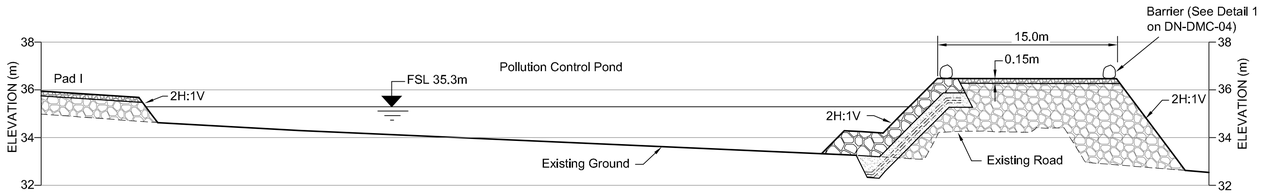


O DMC-010 **SECTION O-O'**

0 2 4 6 8 10 Scale in Metres (Horizontal)

0 1 2 3 4 5 Scale in Metres (Vertical)

2X VERTICAL EXAGGERATION



P DMC-010 **SECTION P-P'**

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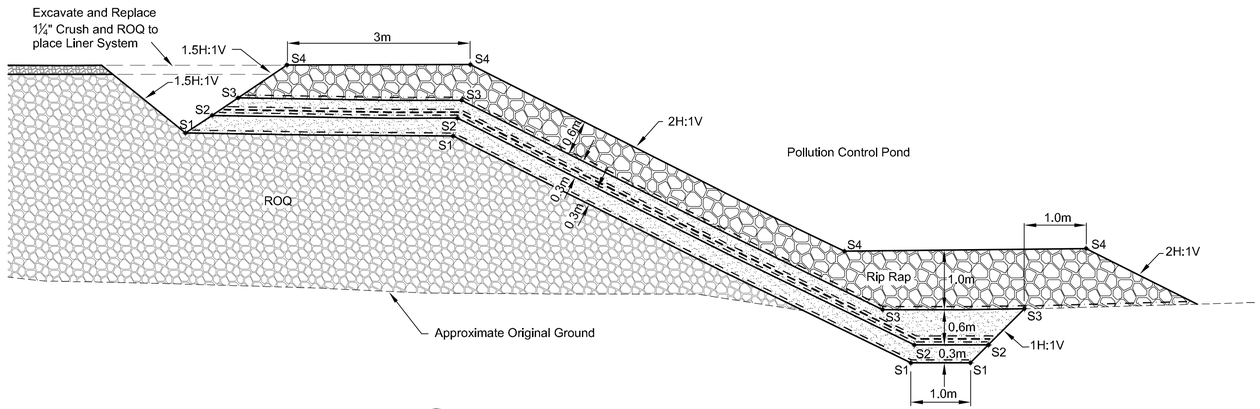
0 1 2 3 4 5 Scale in Metres (Vertical)

2X VERTICAL EXAGGERATION

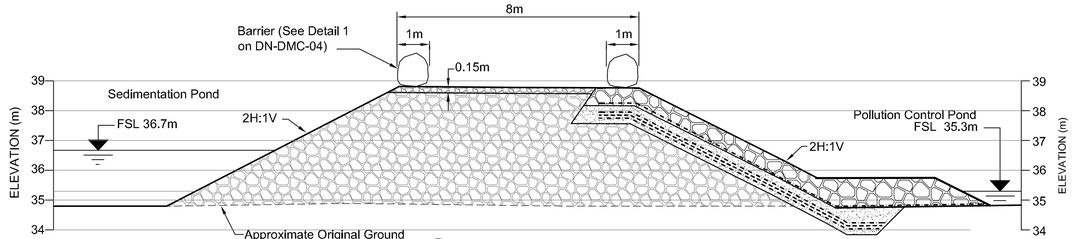


7 DMC-010 **TYPICAL DETAIL 7 - POLLUTION CONTROL POND TYPICAL SURFACE REFERENCE SECTION**

0 0.5 1 1.5 2 2.5 Scale in Metres

LEGEND

- ¾" Crushed Material
- 1 ¼" Crushed Material
- Run of Quarry Material
- Rip Rap
- Existing ground surface
- Textured 60 mil HDPE Liner
- 12 oz. Non-woven Geotextile
- S1 Surface Stake Out Points



Q DMC-010 **SECTION Q-Q'**

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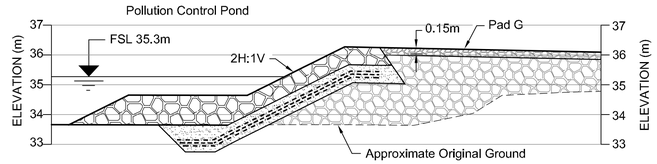

R DMC-010 **SECTION R-R'**

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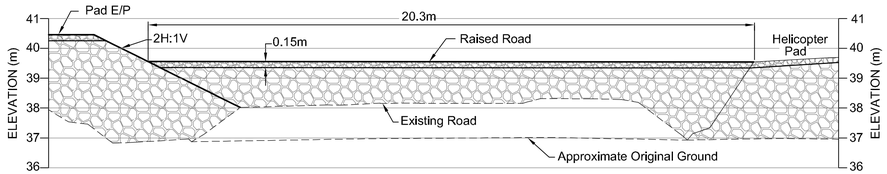
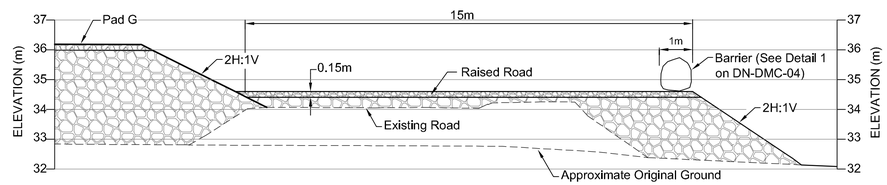


S DMC-010 **SECTION S-S'**

0 1 2 3 4 5 Scale in Metres



T DMC-010 **SECTION T-T'**

0 1 2 3 4 5 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	29SEP10
A	ISSUED FOR REVIEW	LW	EMR	28JUL10

REVISIONS

Original Drawings Stamped and Signed by Engineer

PROFESSIONAL ENGINEERS STAMP

SRK Consulting Engineers and Scientists Vancouver

DESIGN:	DRAWN:	REVIEWED:
MK	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	Sept. 29, 2010

FILE NAME: DN-DMC-010.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.027 SRK DWG NO.: DN-DMC-011

DORIS NORTH PROJECT

DRAWING TITLE:

Sedimentation and Pollution Control Ponds Sections

NEMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0071	12 OF 18	0

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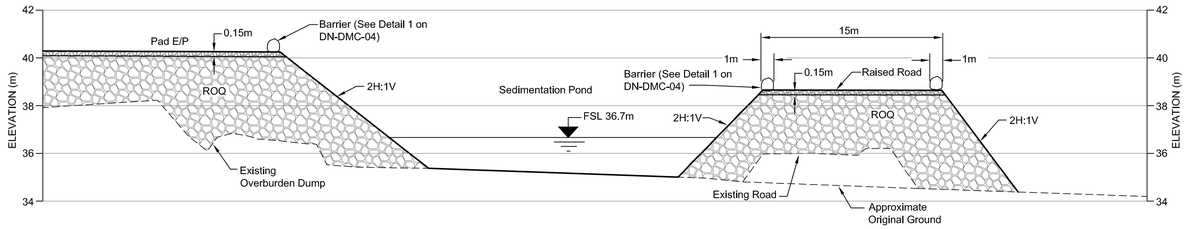

A DMC-010 **SECTION A-A'**

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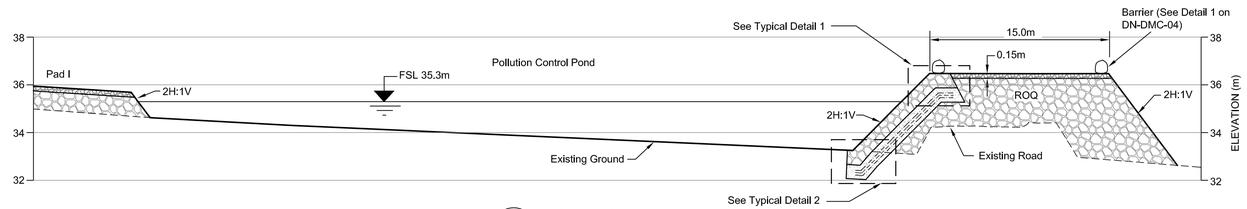
0 1 2 3 4 5 Scale in Metres (Vertical)

2X VERTICAL EXAGGERATION



B DMC-010 **SECTION B-B'**

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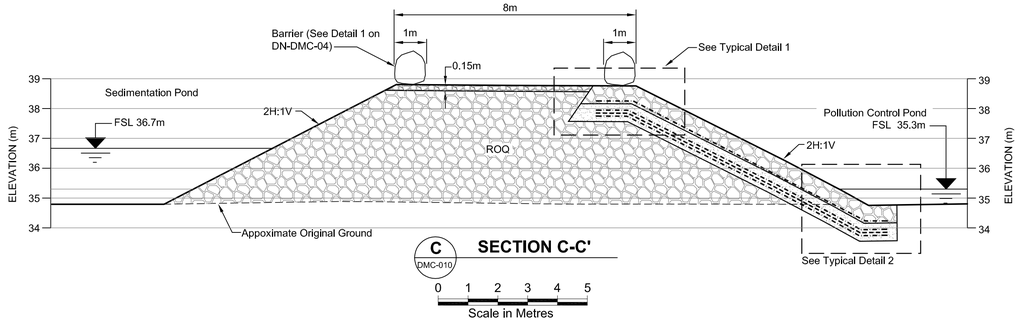
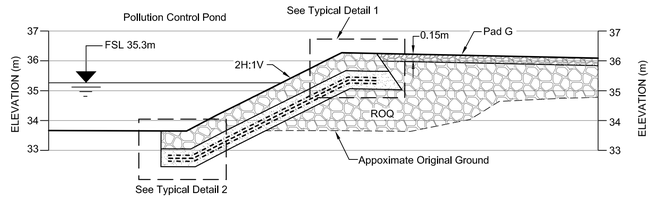
0 1 2 3 4 5 Scale in Metres (Vertical)

2X VERTICAL EXAGGERATION



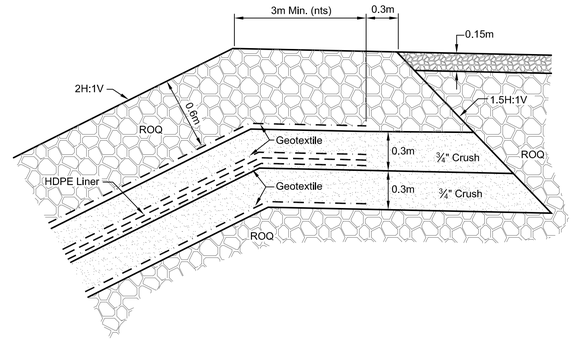
C DMC-010 **SECTION C-C'**

0 1 2 3 4 5 Scale in Metres



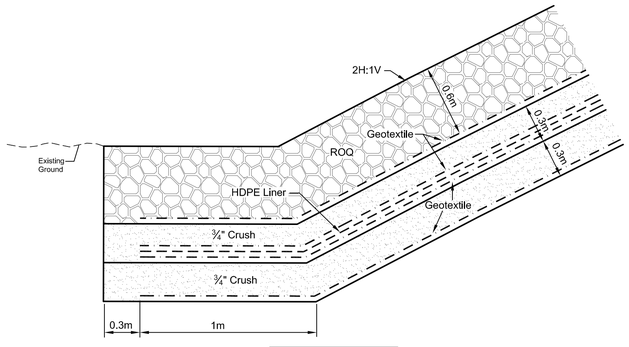
D DMC-010 **SECTION D-D'**

0 1 2 3 4 5 Scale in Metres



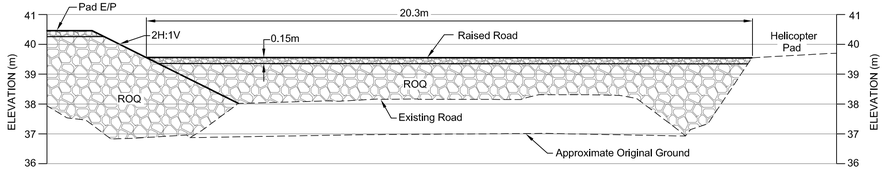
1 — TYPICAL DETAIL 1 - POLLUTION CONTROL POND

NTS



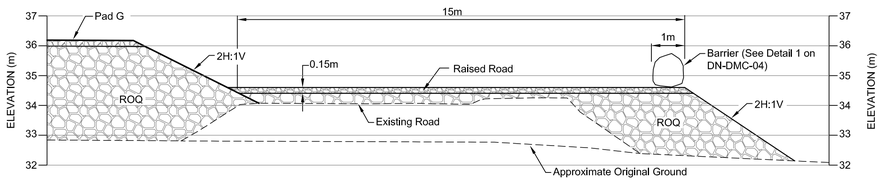
2 — TYPICAL DETAIL 2 - POLLUTION CONTROL POND

NTS



E DMC-010 **SECTION E-E'**

0 1 2 3 4 5 Scale in Metres



F DMC-010 **SECTION F-F'**

0 1 2 3 4 5 Scale in Metres

LEGEND

- ¾" Crushed Material
- 1 ¼" Crushed Material
- Run of Quarry Material
- Existing ground surface
- Textured HDPE Liner
- 12 oz. Non-woven Geotextile

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE	NO.	DESCRIPTION	CHK'D	APP'D	DATE
–	–							
DMC–010	Sedimentation and Pollution Ponds Grading Plan			A	ISSUED FOR REVIEW	LW	EMR	28JUL10

REFERENCE DRAWINGS — REVISIONS

PROFESSIONAL ENGINEERS STAMP

SRK Consulting Engineers and Scientists Vancouver

DESIGN:	DRAWN:	REVIEWED:
MK	MDDS	EMR
CHECKED:	APPROVED:	DATE:
LW	EMR	JULY 28, 2010

FILE NAME: DN–DMC–010.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008 027 SRK DWG NO.: DN-DMC-011

DORIS NORTH PROJECT

DRAWING TITLE: Sedimentation and Pollution Control Ponds Sections

NEMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0071	12 OF 15	A

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