

APPENDIX B

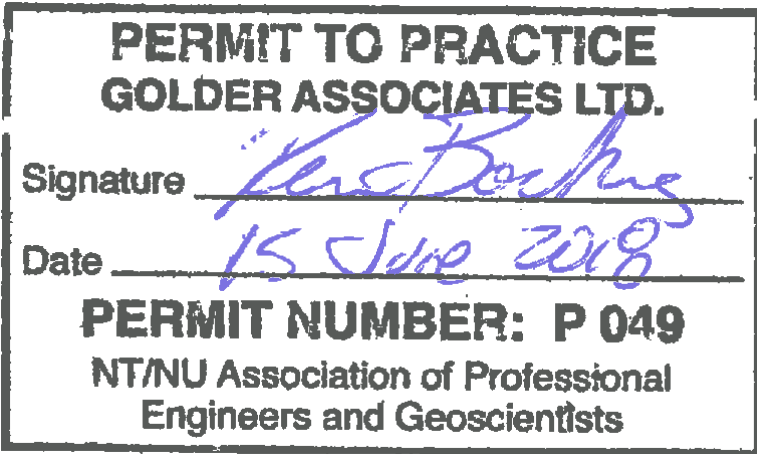
Issued for Construction Drawings

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MARY RIVER PROJECT
WRF POND EXPANSION DRAINAGE SYSTEM
DETAILED DESIGN

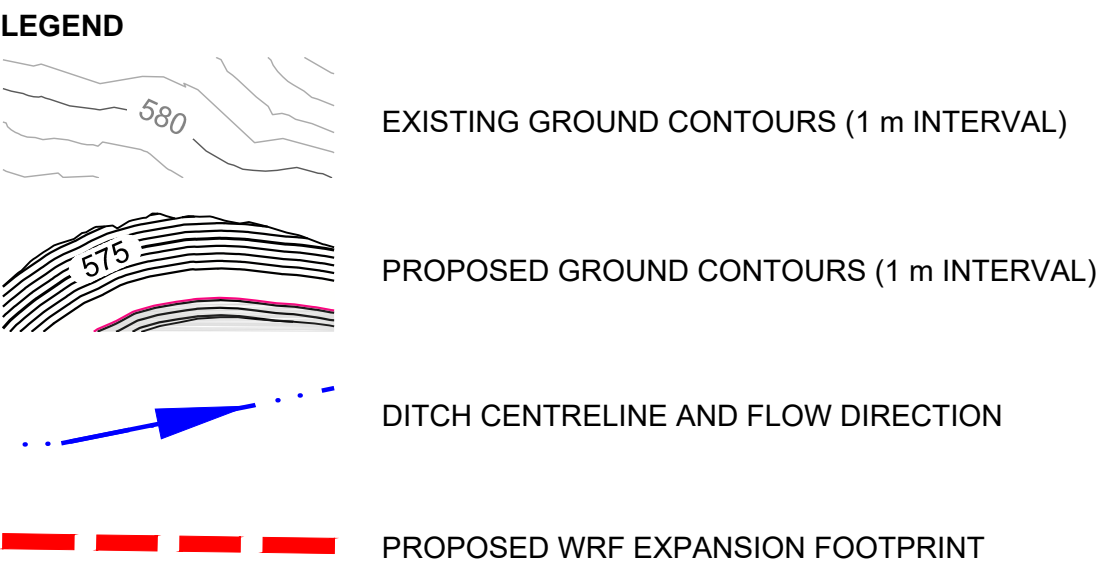
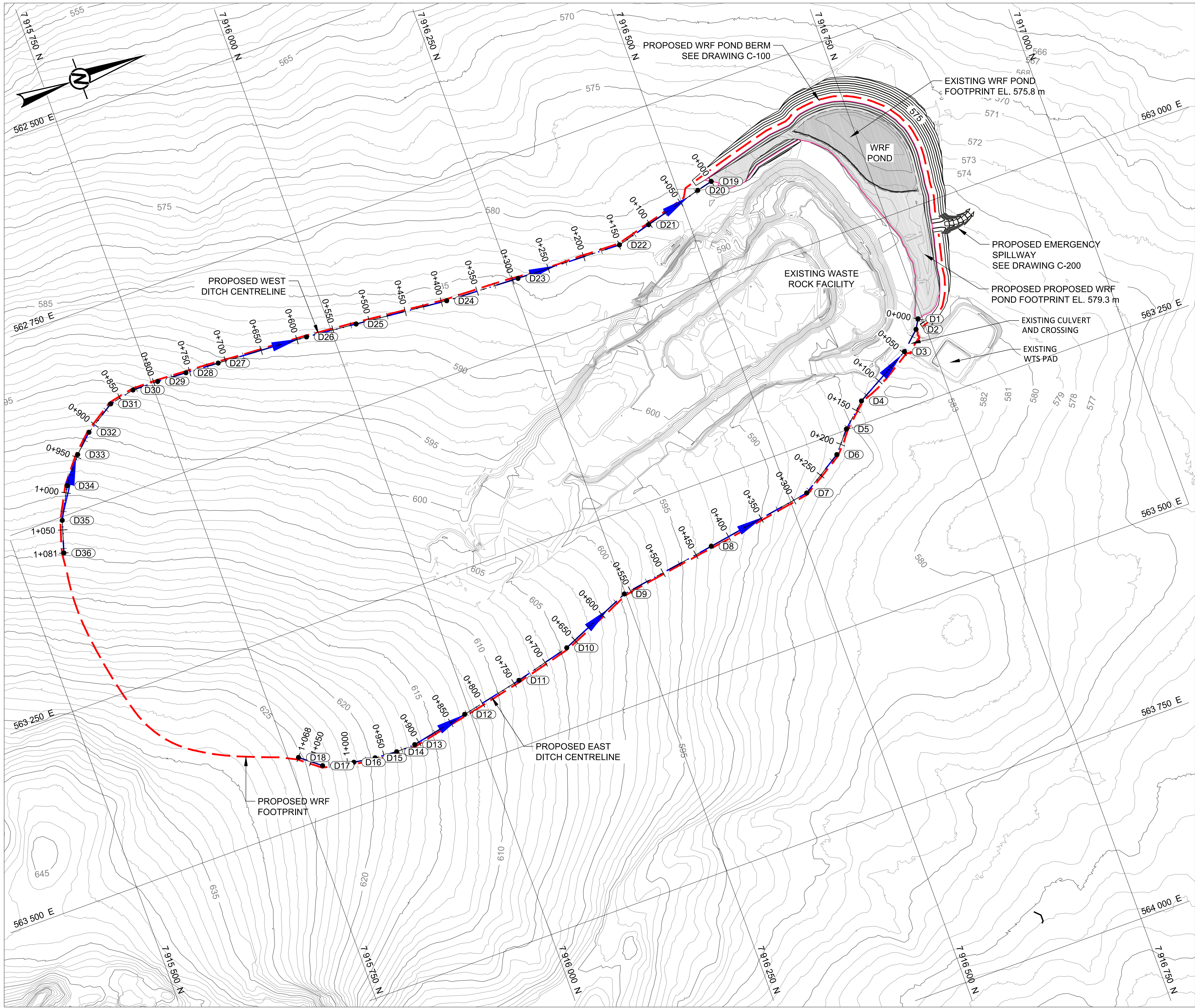
DRAWINGS INDEX				
PLAN NO.	TITLE	REV.	DESCRIPTION	DATE
G-100	COVER PAGE	A	ISSUED FOR CONSTRUCTION	2018-06-15
G-200	WRF POND EXPANSION - GENERAL ARRANGEMENT	A	ISSUED FOR CONSTRUCTION	2018-06-15
C-100	WRF POND EXPANSION - PLAN & PROFILE	A	ISSUED FOR CONSTRUCTION	2018-06-15
C-120	WRF POND EXPANSION - SECTIONS AND DETAILS	A	ISSUED FOR CONSTRUCTION	2018-06-15
C-130	WRF POND EXPANSION - SECTIONS AND DETAILS	A	ISSUED FOR CONSTRUCTION	2018-06-15
C-200	WRF POND EXPANSION - SPILLWAY - PLAN, PROFILE & SECTIONS	A	ISSUED FOR CONSTRUCTION	2018-06-15



ISSUED FOR CONSTRUCTION

A	2018-06-15	ISSUED FOR CONSTRUCTION			SEC	BA	MT	KAB
REV.	YYYY-MM-DD	DESCRIPTION			DESIGNED	PREPARED	REVIEWED	APPROVED

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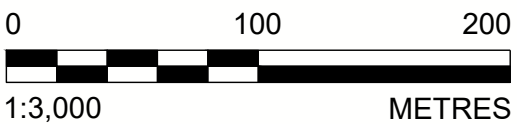


- NOTE(S)**
- ALL DIMENSIONS AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - COORDINATE SYSTEM IS UTM (NAD83) ZONE 17.
 - THE GROUND SURFACE IS APPROXIMATE AND MAY VARY FROM THAT SHOWN.
 - THE CONTRACTOR SHALL CARRY OUT AN AS-BUILT SURVEY OF THE EXISTING CONDITION AND ALL NEW CONSTRUCTION.

- REFERENCE(S)**
- TOPOGRAPHY PROVIDED BY BAFFINLAND.
 - AS-BUILT CONTOURS PROVIDED BY BAFFINLAND ON MAY 17, 2018.

WEST DITCH POINTS SETOUT TABLE			
POINT No.	EASTING (m)	NORTHING (m)	ELEVATION (m)
D19	562875.20	7916546.74	579.300
D20	562880.21	7916525.74	579.483
D21	562900.92	7916448.04	580.169
D22	562913.04	7916402.12	581.357
D23	562908.71	7916259.07	583.664
D24	562904.21	7916159.03	585.297
D25	562891.98	7916034.34	587.065
D26	562885.47	7915966.03	587.688
D27	562877.94	7915842.89	589.702
D28	562875.38	7915797.80	591.359
D29	562873.31	7915758.26	592.935
D30	562872.84	7915723.34	594.457
D31	562880.10	7915688.84	596.063
D32	562905.87	7915648.59	598.634
D33	562928.75	7915624.15	600.563
D34	562963.06	7915596.53	603.188
D35	563004.45	7915574.53	605.913
D36	563046.32	7915561.67	608.795

EAST DITCH POINTS SETOUT TABLE			
POINT No.	EASTING (m)	NORTHING (m)	ELEVATION (m)
D1	563143.03	7916744.05	579.300
D2	563155.21	7916736.76	579.985
D3	563177.93	7916711.89	581.400
D4	563220.33	7916635.24	583.122
D5	563248.84	7916603.40	584.504
D6	563276.56	7916579.64	585.386
D7	563311.08	7916524.10	586.118
D8	563334.50	7916379.54	592.006
D9	563354.66	7916248.35	598.661
D10	563396.03	7916151.18	603.586
D11	563415.08	7916076.07	607.237
D12	563433.09	7915992.12	611.678
D13	563448.27	7915915.51	615.518
D14	563448.97	7915889.46	616.934
D15	563446.77	7915859.54	618.658
D16	563442.57	7915830.80	620.182
D17	563432.50	7915789.89	622.592
D18	563411.19	7915763.25	624.315



ISSUED FOR CONSTRUCTION

A	2018-06-15	ISSUED FOR CONSTRUCTION	SEC	BA	MT	KAB
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

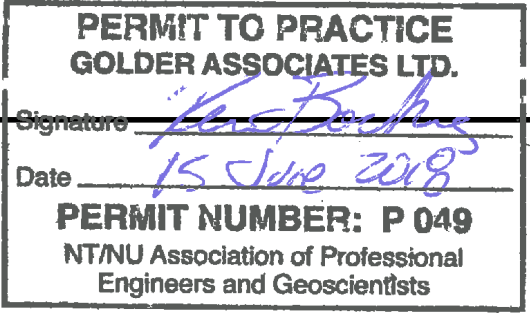
SEAL



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CONSULTANT



MISSISSAUGA OFFICE
6925 CENTERY AVENUE, SUITE 100
MISSISSAUGA, ON
CANADA
905-567-4444
www.golder.com

PROJECT

MARY RIVER PROJECT
WRF POND EXPANSION
DRAINAGE SYSTEM

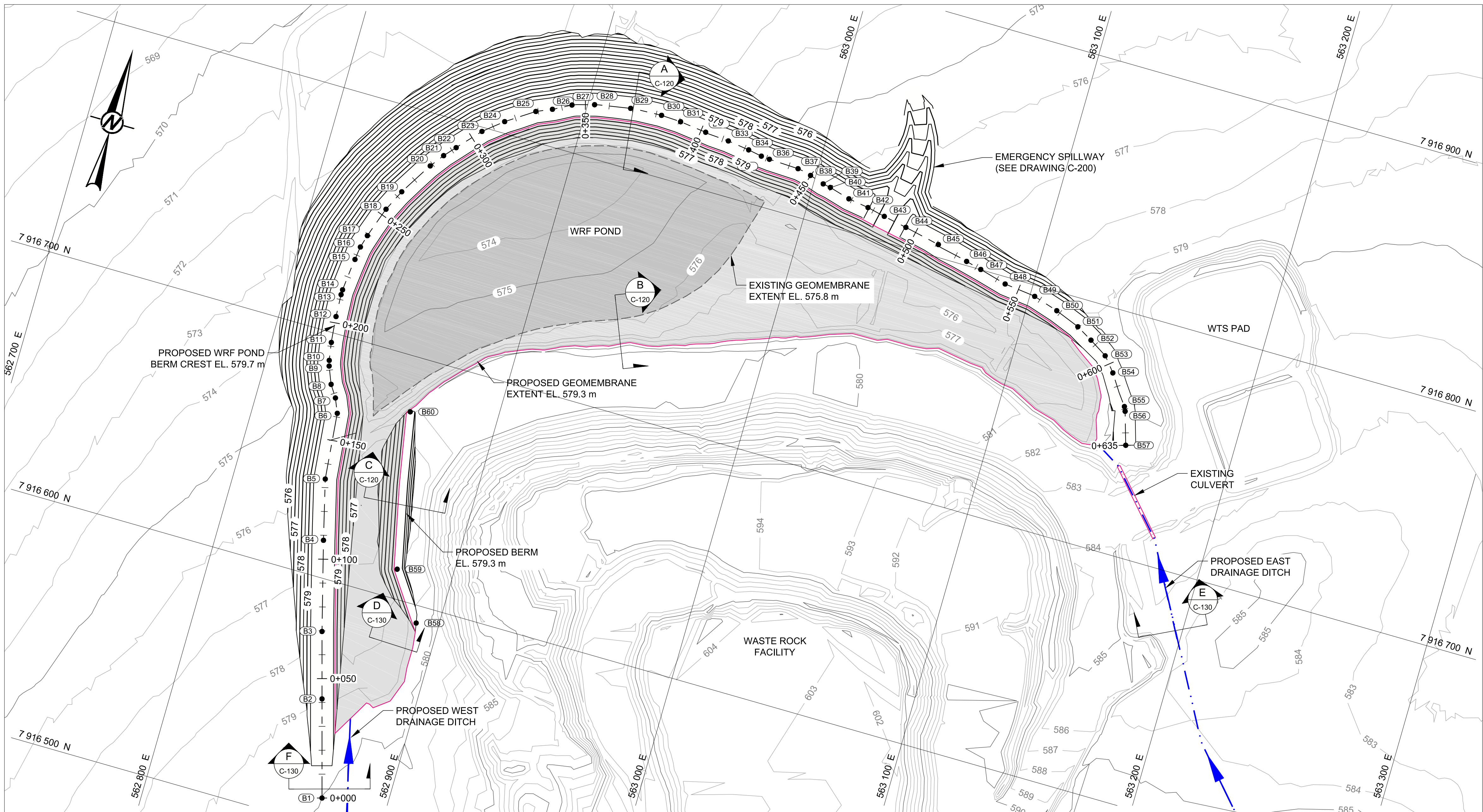
TITLE

WRF POND EXPANSION - GENERAL ARRANGEMENT

PROJECT NO.	PHASE	REV.	of	DRAWING
1790951	2003	A		G-200

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI D 25 mm

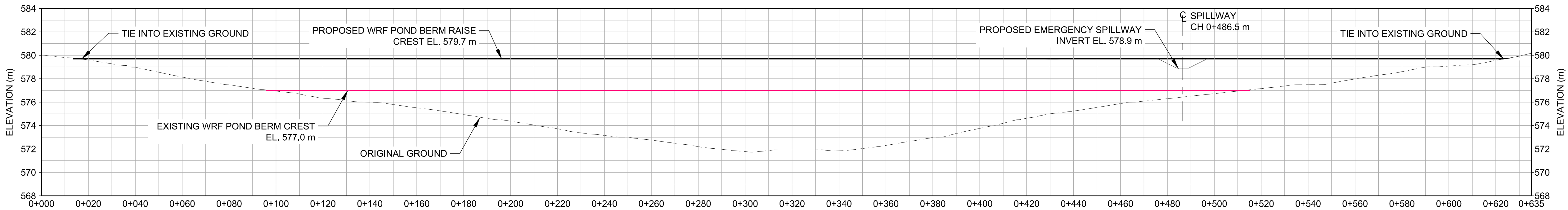
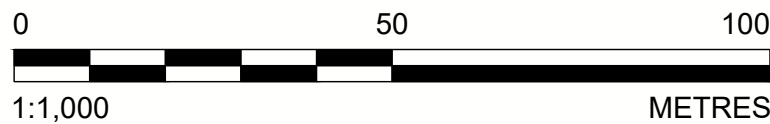
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- LEGEND**
- PROPOSED DESIGN CONTOURS (0.5 m INTERVAL)
 - EXISTING GROUND CONTOURS (1.0 m INTERVAL)
 - EXISTING WRF POND
 - PROPOSED WRF POND EXPANSION
 - PROPOSED EXTENT OF GEOMEMBRANE
 - DRAINAGE DITCH AND FLOW DIRECTION

- NOTE(S)**
- ALL DIMENSIONS AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - COORDINATE SYSTEM IS UTM (NAD83) ZONE 17.
 - THE GROUND SURFACE IS APPROXIMATE AND MAY VARY FROM THAT SHOWN.
 - THE WRF POND SHALL BE DEWATERED AND THE CONDITION OF THE EXISTING GEOMEMBRANE INSPECTED PRIOR TO RAISING OF THE WRF POND BERM.
 - REFER TO DRAWING C-120 FOR THE WRF POND BERM SETOUT POINTS. SETOUT POINTS TO BE VERIFIED AT TIME OF CONSTRUCTION.

- REFERENCE(S)**
- TOPOGRAPHY PROVIDED BY BAFFINLAND.
 - ASBUILT CONTOURS PROVIDED BY BAFFINLAND ON MAY 17, 2018.



ISSUED FOR CONSTRUCTION

A		2018-06-15	ISSUED FOR CONSTRUCTION	SEC BA MT KAB			
REV.	YYYY-MM-DD	DESCRIPTION		DESIGNED	PREPARED	REVIEWED	APPROVED

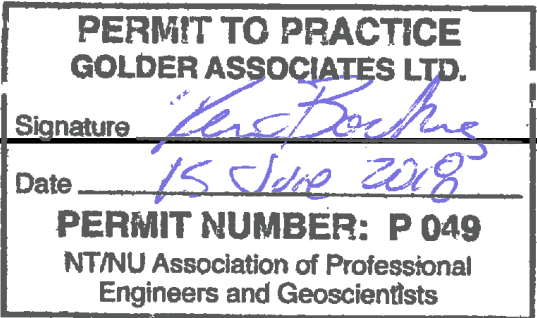
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MISSISSAUGA OFFICE
6925 CENTURY AVENUE, SUITE 100
MISSISSAUGA, ON
CANADA
905-567-4444
www.golder.com

PROJECT

MARY RIVER PROJECT
WRF POND EXPANSION
DRAINAGE SYSTEM

TITLE

WRF POND EXPANSION - PLAN & PROFILE

PROJECT NO.
1790951

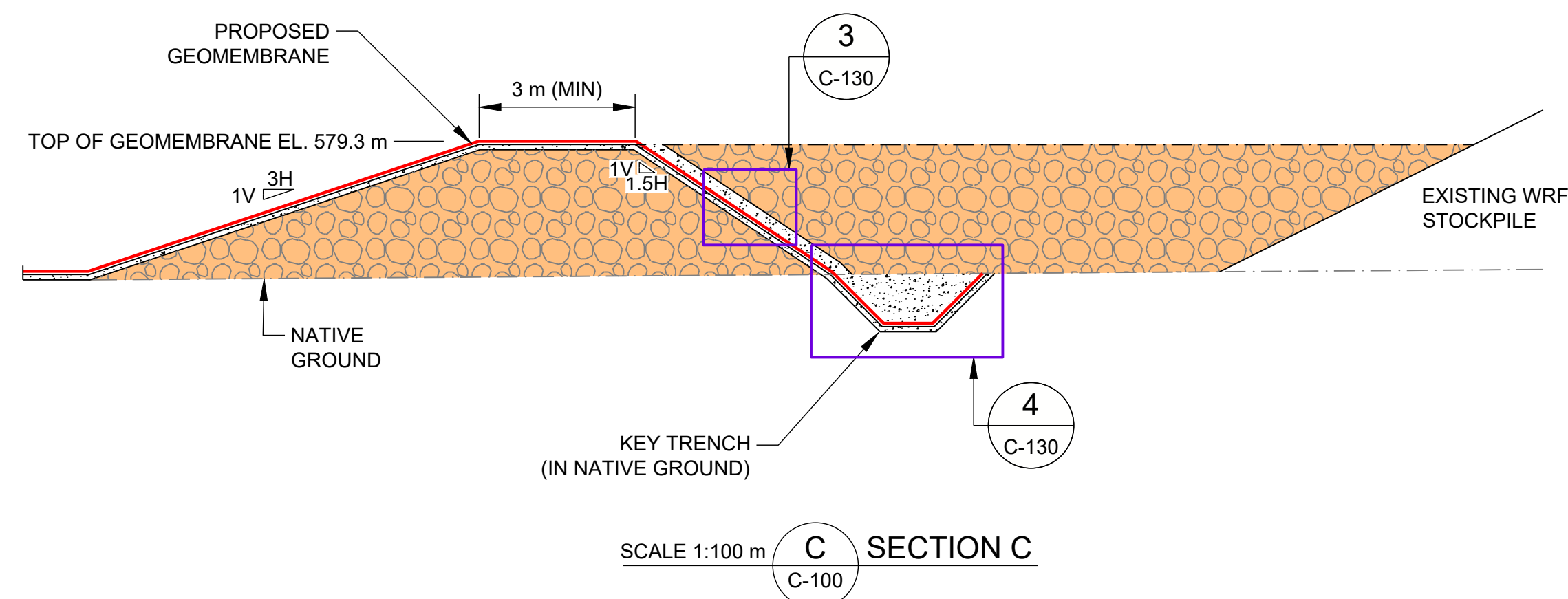
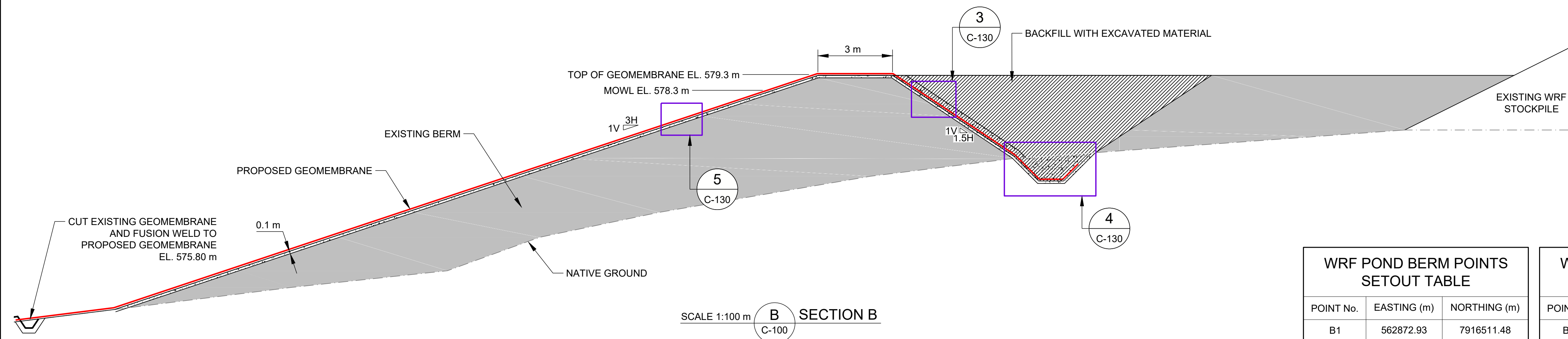
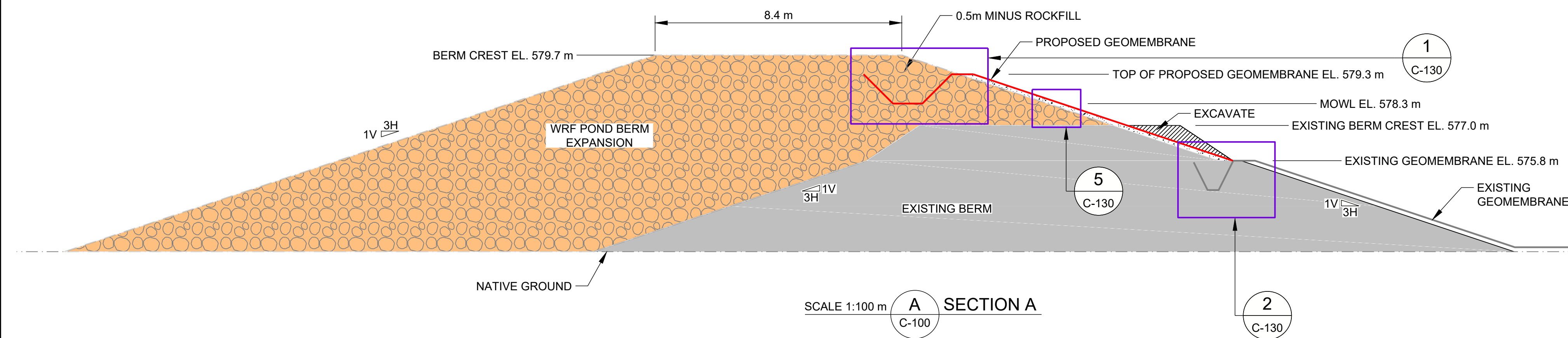
PHASE
2003

REV.
A

of

DRAWING
C-100

25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D



WRF POND BERM POINTS SETOUT TABLE		
POINT No.	EASTING (m)	NORTHING (m)
B1	562872.93	7916511.48
B2	562861.51	7916551.38
B3	562853.75	7916578.52
B4	562843.84	7916615.40
B5	562837.50	7916640.25
B6	562834.77	7916668.09
B7	562832.26	7916674.06
B8	562828.95	7916679.04
B9	562826.05	7916686.18
B10	562825.44	7916688.47
B11	562824.21	7916695.95
B12	562823.12	7916706.90
B13	562822.64	7916716.32
B14	562822.67	7916718.41
B15	562824.17	7916732.07
B16	562824.93	7916737.70
B17	562826.42	7916743.06
B18	562830.88	7916755.85
B19	562835.20	7916764.69
B20	562843.70	7916778.38

WRF POND BERM POINTS SETOUT TABLE		
POINT No.	EASTING (m)	NORTHING (m)
B21	562847.90	7916784.06
B22	562852.02	7916788.72
B23	562860.54	7916798.22
B24	562868.55	7916804.78
B25	562879.93	7916812.45
B26	562886.35	7916815.24
B27	562893.74	7916819.21
B28	562902.79	7916821.94
B29	562917.74	7916824.63
B30	562930.97	7916825.38
B31	562939.38	7916824.99
B32	562950.67	7916823.65
B33	562960.80	7916822.75
B34	562970.01	7916821.50
B35	562975.83	7916820.44
B36	562979.45	7916820.10
B37	562992.06	7916819.61
B38	562997.85	7916818.35
B39	563003.93	7916816.39
B40	563007.21	7916815.78

WRF POND BERM POINTS SETOUT TABLE		
POINT No.	EASTING (m)	NORTHING (m)
B41	563015.98	7916813.34
B42	563024.69	7916812.02
B43	563032.25	7916810.35
B44	563042.22	7916808.42
B45	563057.26	7916805.22
B46	563070.57	7916801.69
B47	563077.20	7916800.08
B48	563088.70	7916797.04
B49	563102.00	7916795.47
B50	563112.54	7916792.24
B51	563122.88	7916788.21
B52	563129.70	7916784.31
B53	563137.21	7916779.66
B54	563142.27	7916773.66
B55	563150.80	7916761.44
B56	563151.64	7916759.62
B57	563155.79	7916746.01
B58	562890.67	7916592.75
B59	562876.82	7916612.24
B60	562863.96	7916677.09

ISSUED FOR CONSTRUCTION

A	2018-06-15	ISSUED FOR CONSTRUCTION
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REV.	YYYY-MM-DD	DESCRIPTION
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SEC	BA	MT	KAB
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DESIGNED PREPARED REVIEWED APPROVED

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MISSISSAUGA OFFICE
6925 CENTERY AVENUE, SUITE 100
MISSISSAUGA, ON
CANADA
905-567-444
www.golder.com

PROJECT
MARY RIVER PROJECT
WRF POND EXPANSION
DRAINAGE SYSTEM

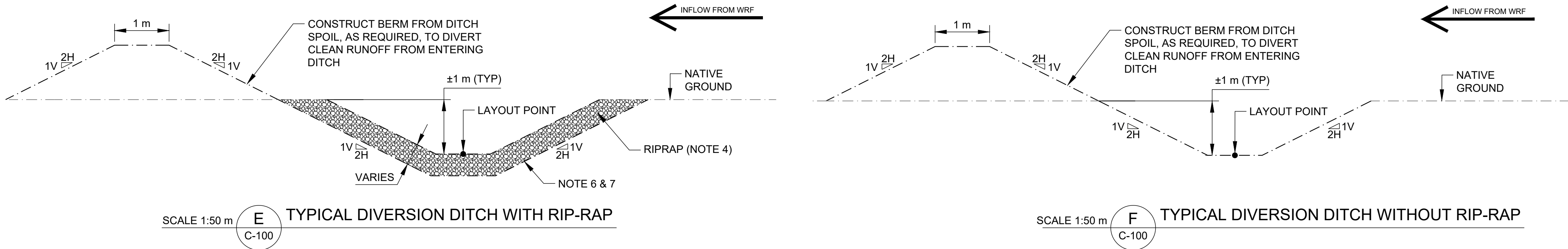
TITLE
WRF POND EXPANSION - SECTIONS AND DETAILS

PROJECT NO.	PHASE	REV.	of	DRAWING
1790951	2003	A		C-120

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D 25 mm

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- LEGEND**
- 0.5m MINUS ROCKFILL
 - INTERMEDIATE BEDDING
 - EXCAVATION AREA
 - EXISTING BERM
 - PROPOSED
 - RIPRAP
 - GEOMEMBRANE
 - NON-WOVEN GEOTEXTILE

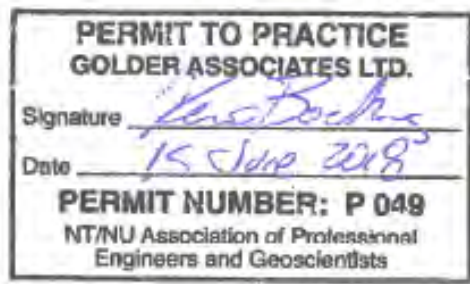
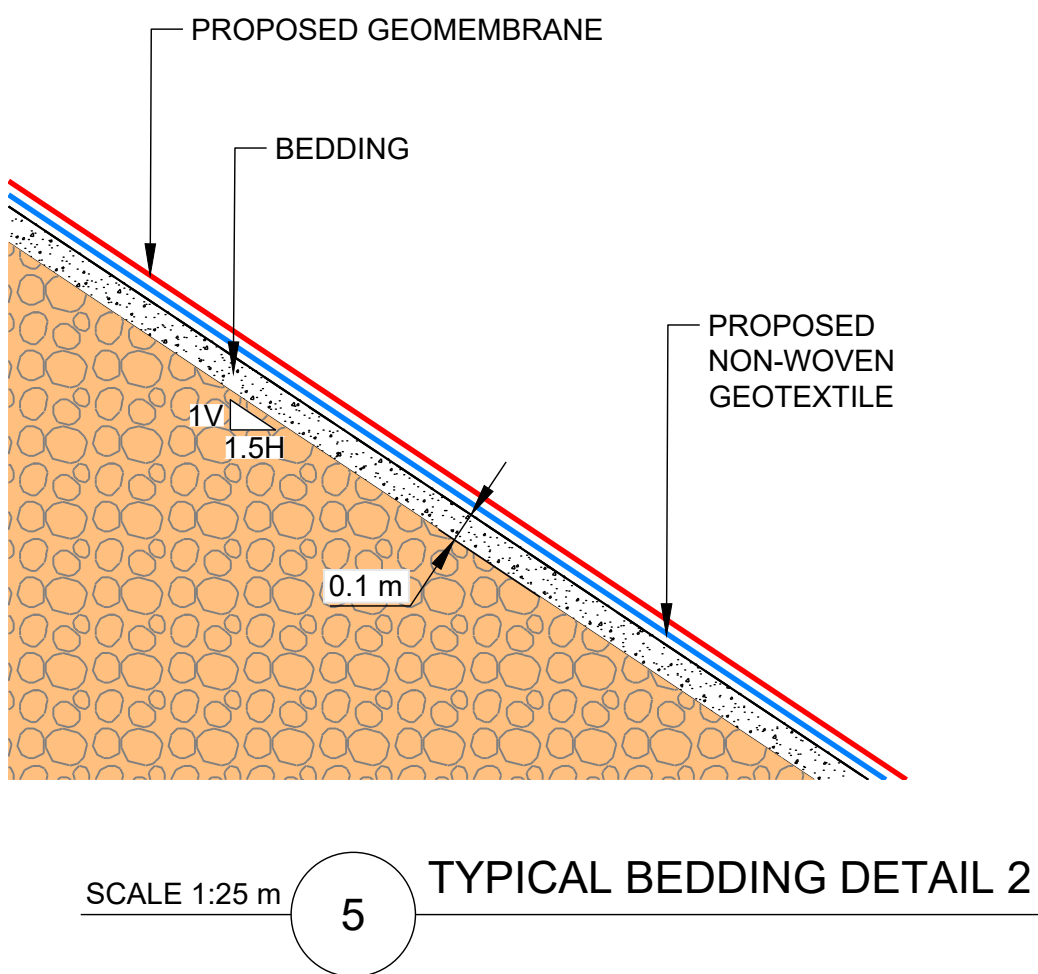
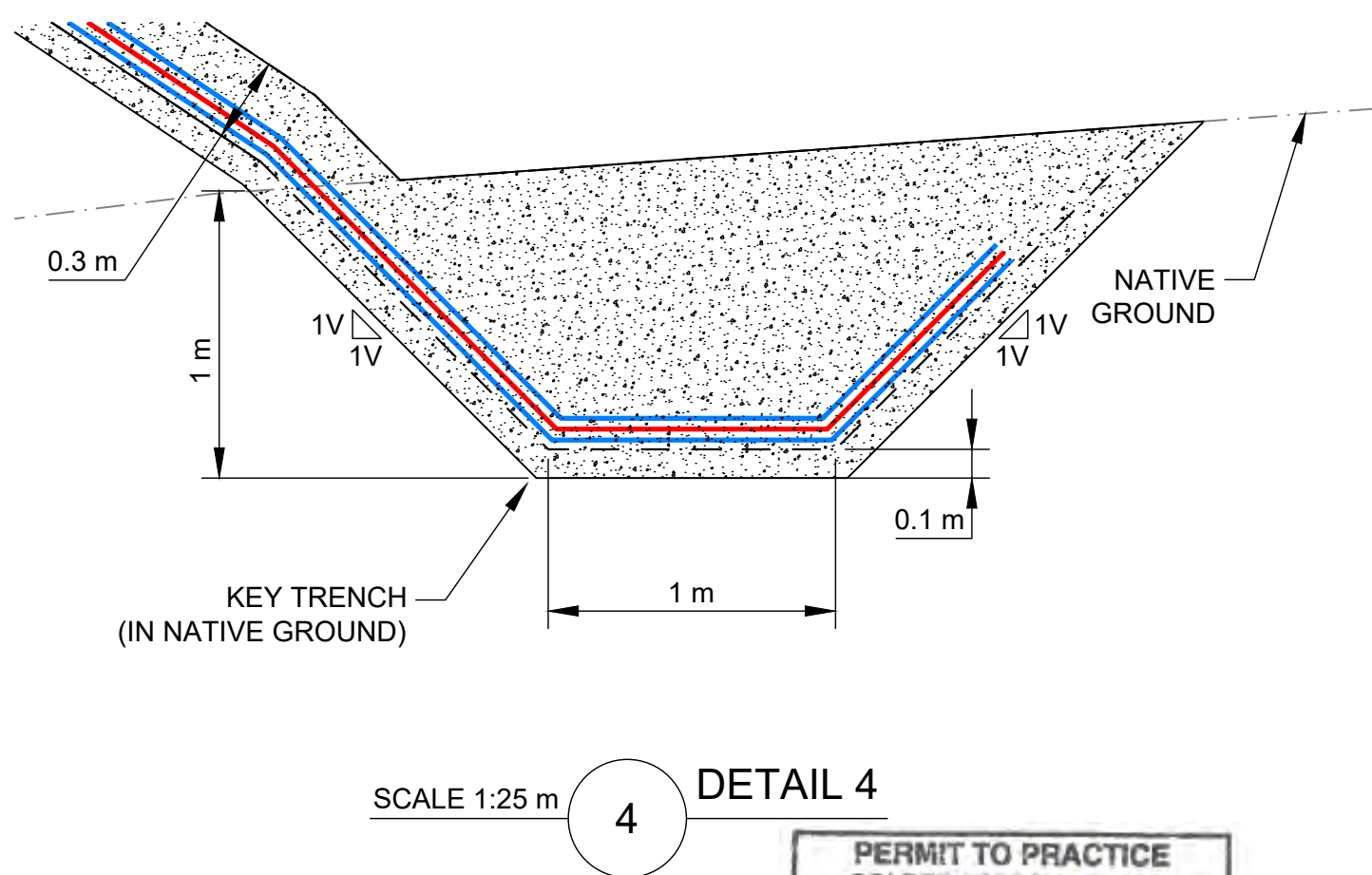
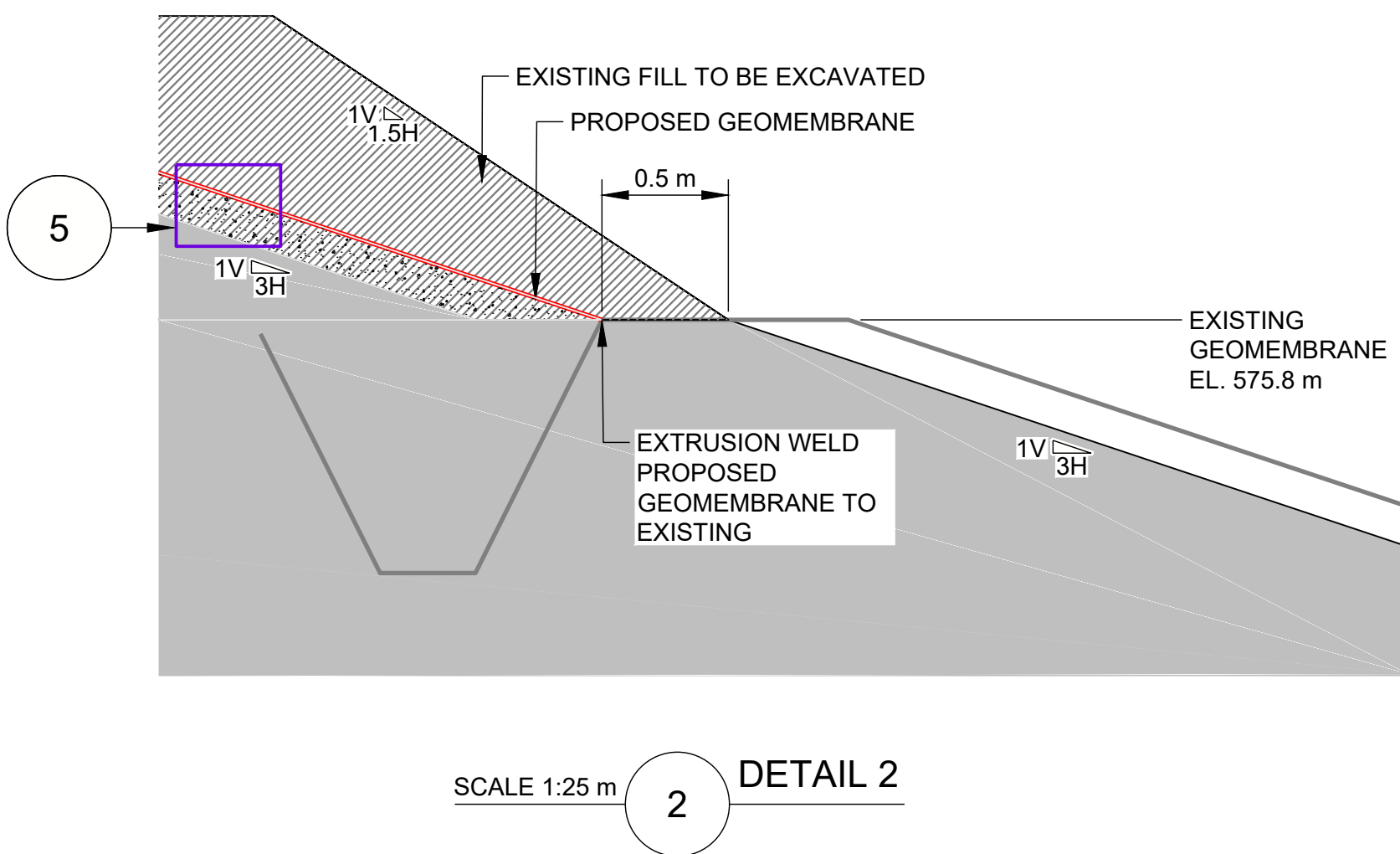
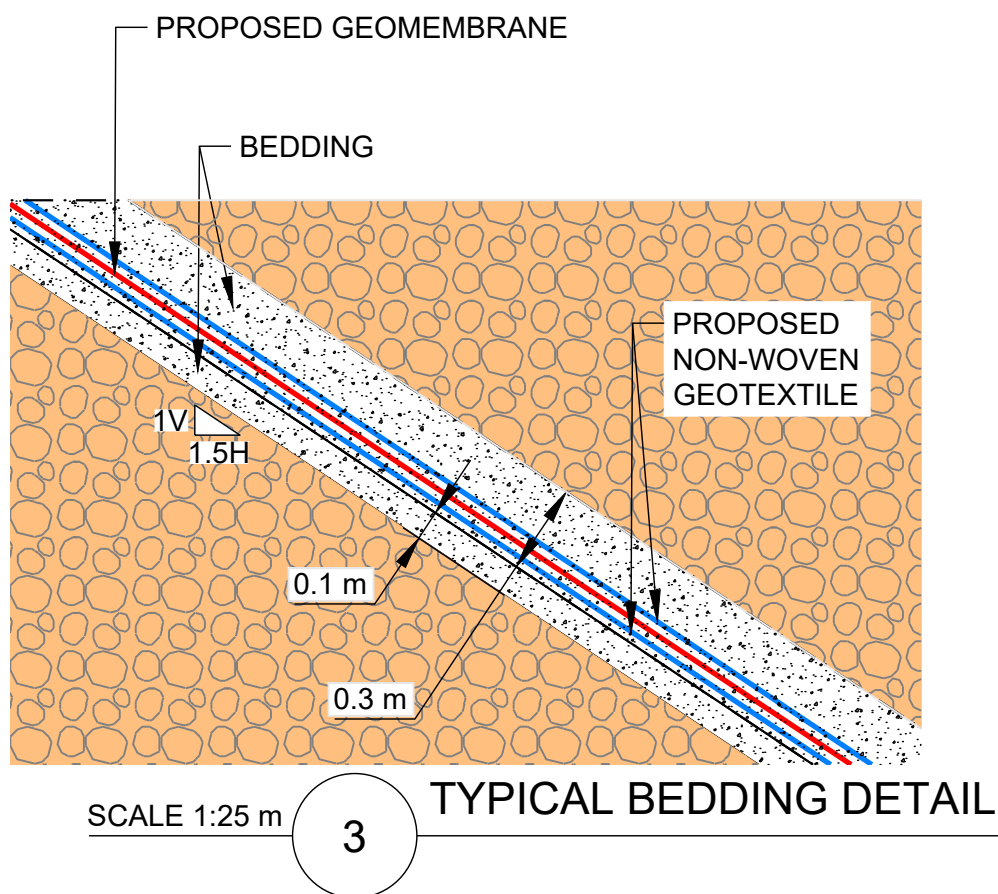
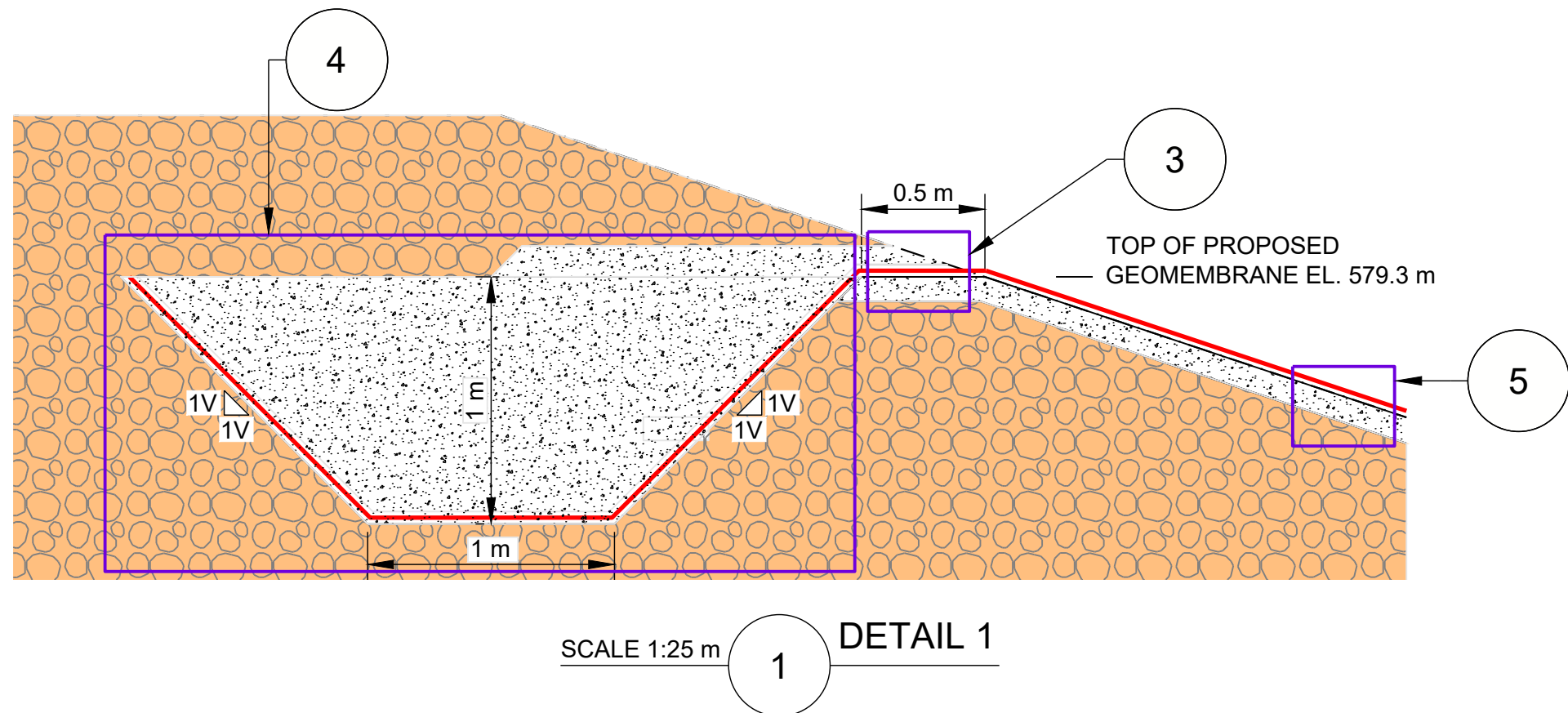
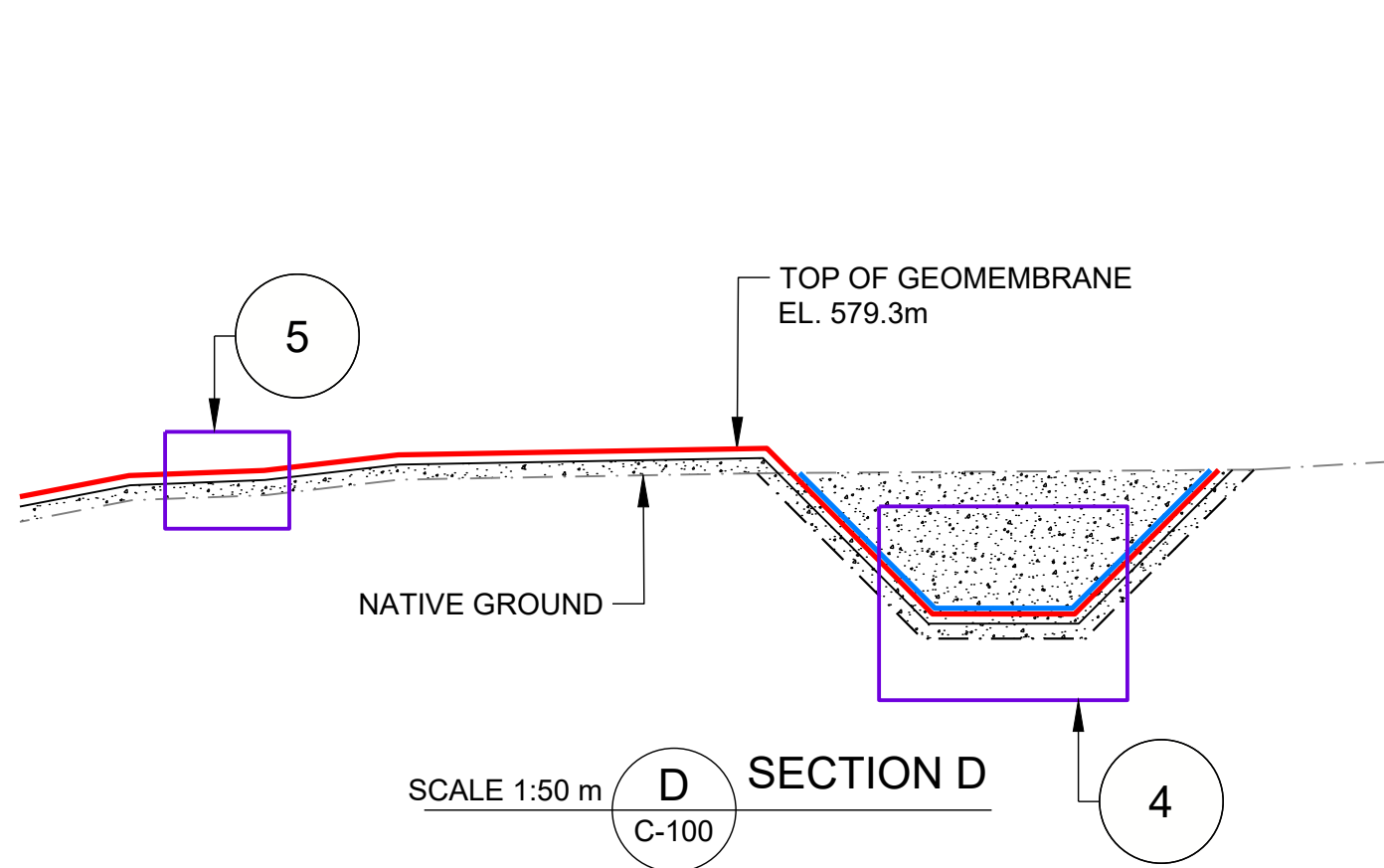
- NOTE(S)**
- ALL DIMENSIONS AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - ORGANIC AND DELETERIOUS MATERIALS TO BE STRIPPED FROM FOUNDATION PRIOR TO FILL PLACEMENT.
 - NON-WOVEN GEOTEXTILE MAY BE REPLACED BY 0.1 m THICKNESS OF FINE BEDDING MATERIAL.
 - REFER TO TABLE FOR RIPRAP GRADATION, THICKNESS, AND LOCATIONS WHERE REQUIRED.
 - GEOMEMBRANE TO BE LAYFIELD ENVIROLINER 6060 OR APPROVED EQUIVALENT. GEOTEXTILE TO BE LAYFIELD LP7 OR APPROVED EQUIVALENT.
 - RIPRAP MAY NOT BE INSTALLED AT THE TIME OF DITCH EXCAVATION. REQUIREMENT FOR RIPRAP TO BE DETERMINED BASED ON PERFORMANCE MONITORING.
 - RIPRAP SHALL BE EXTENDED 3.0 m INTO THE DITCH SECTION WHERE RIPRAP IS NOT REQUIRED.

RIP-RAP SETOUT TABLE

	Upstream Station	Downstream Station	Slope	Flow Depth	Flow Velocity	Minimum Riprap D ₅₀
			(%)	(m)	(m/s)	(mm)
West Ditch	0+000	0+022	0.08%	0.7	0.5	Not required
	0+022	0+102	1.50%	0.4	1.3	Not required
	0+102	0+150	2.50%	0.3	1.6	200
	0+150	0+293	1.60%	0.4	1.4	Not required
	0+293	0+393	1.60%	0.4	1.4	Not required
	0+393	0+518	1.40%	0.4	1.3	Not required
	0+518	0+587	0.90%	0.4	1.1	Not required
	0+587	0+710	1.60%	0.4	1.4	Not required
	0+710	0+755	3.70%	0.3	1.8	200
	0+755	0+795	4.00%	0.3	1.9	200
	0+795	0+830	4.40%	0.3	2	200
	0+830	0+865	4.50%	0.3	2	200
	0+865	0+913	5.40%	0.3	2.1	300
	0+913	0+946	5.70%	0.3	2.2	300
	0+946	0+990	5.90%	0.2	2.2	300
East Ditch	0+990	1+037	5.80%	0.3	2.2	300
	1+037	1+081	6.60%	0.2	2.3	300
	0+000	0+014	6.60%	0.2	1.5	300
	0+014	0+048	4.10%			CSP Culvert Riprap to be provided at outlet
	0+048	0+135	2.00%	0.3	1.5	Not required
	0+135	0+178	3.20%	0.3	1.8	200
	0+178	0+215	2.40%	0.3	1.6	200
	0+215	0+280	1.10%	0.4	1.2	Not required
	0+280	0+427	4.00%	0.3	1.9	200
	0+427	0+559	5.00%	0.3	2.1	300
	0+559	0+665	4.70%	0.3	2	300
	0+665	0+742	4.70%	0.3	2	300
	0+742	0+828	5.20%	0.3	2.1	300
	0+828	0+906	4.90%	0.3	2.1	300
	0+906	0+932	5.40%	0.3	2.2	300

RIPRAP THICKNESS SHALL BE TWICE THE D50 VALUE

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MISSISSAUGA OFFICE
6925 CENTURY AVENUE, SUITE 100
MISSISSAUGA, ON
CANADA
905-567-444
www.golder.com

PROJECT

MARY RIVER PROJECT
WRF POND EXPANSION
DRAINAGE SYSTEM

TITLE

WRF POND EXPANSION - SECTIONS AND DETAILS

PROJECT NO.
1790951

PHASE
2003

REV.
A

of

DRAWING
C-130

A 2018-06-15 ISSUED FOR CONSTRUCTION

SEC BA MT KAB

REV. YYYY-MM-DD DESCRIPTION

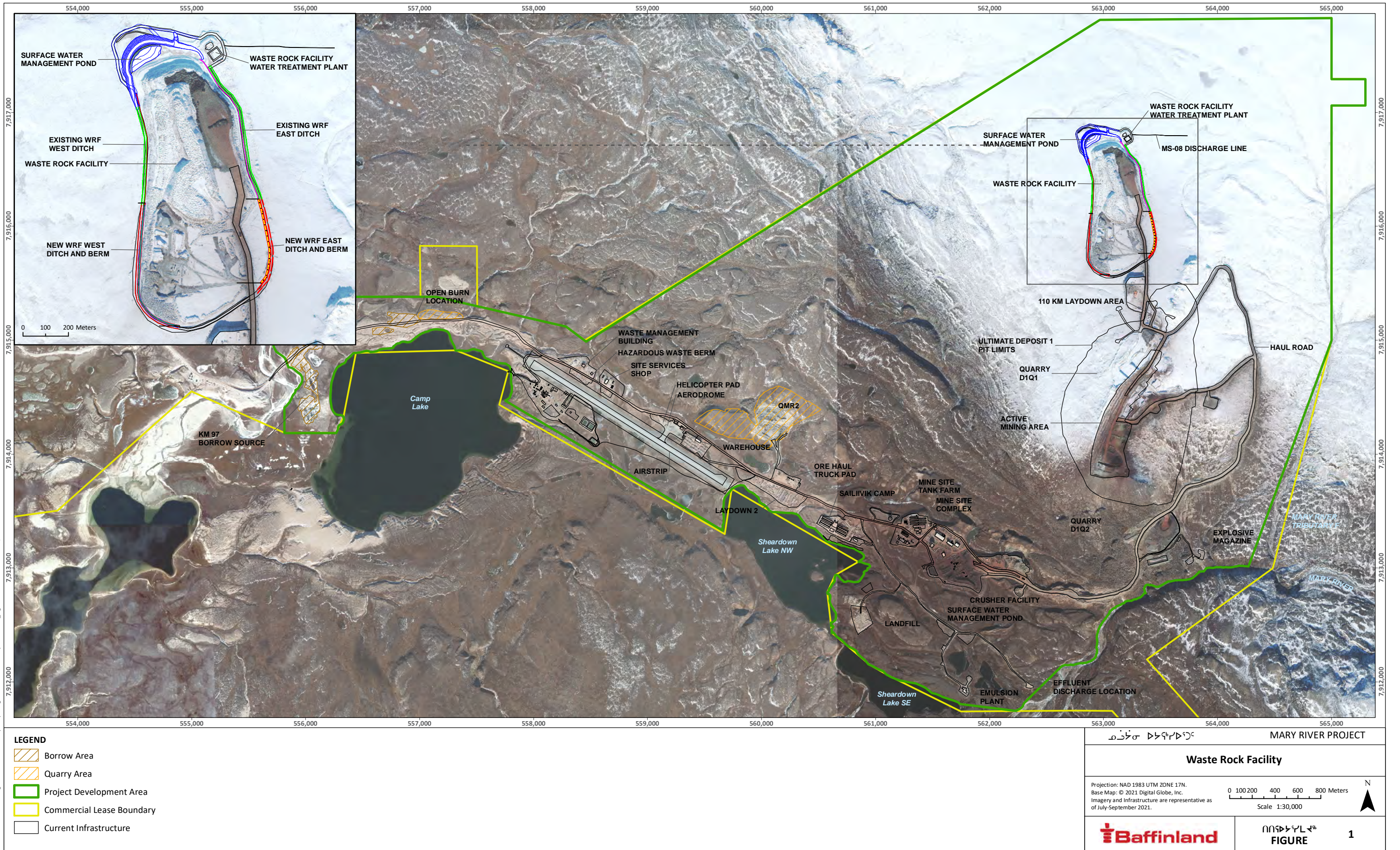
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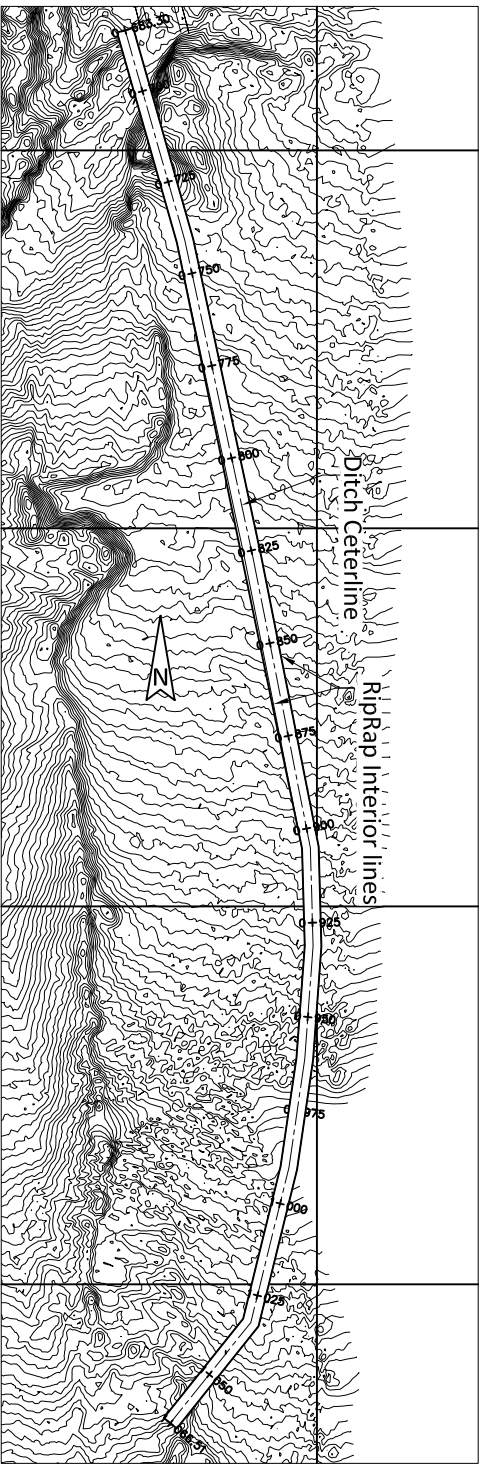
25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D



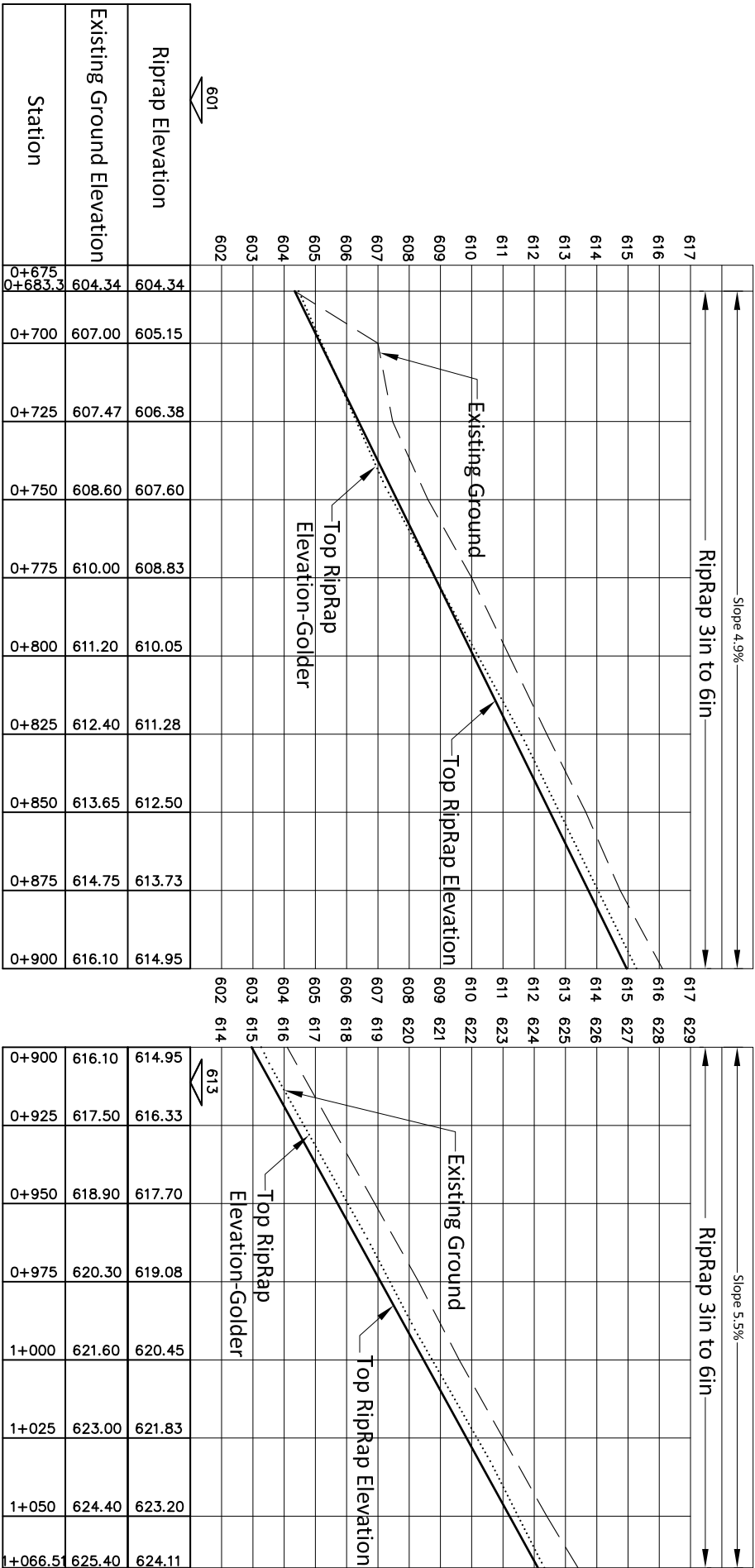
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SAVED: C:\Users\katie.mcguire\Documents\4 - Maps\Reporting\CSR\Waste Pond Expansion\BIM_Fig 1 MineSite WRF Pond.mxd, 05-Jan-22





Plan
Scale 1:2000



Longitudinal Profile
Scale H 1:2000
V 1:200

Notes:

- 1-All dimensions are in meters unless noted otherwise.
- 2-Ditch typical cross section shown in the drawings is for cut in soft soil only.
- 3-Upstream end of the ditch shall be sloped 2H:1V and covered by Geotextile and RipRap.
- 4-West rockfill with a reasonable size shall be used to replace unsuitable material and as directed by Baffinland Iron Mine Inc. Representative.
- 5-West rockfill material shall be properly placed, finished and compacted by the pocket excavator.
- 6-Rocfill 500mm minus ROQ shall be used for road construction, materials shall be placed in one layer and compacted by a Dozer.
- 7-Roc fill layer shall be 1m thick placed in such away that follows the existing ground surface.
- 8- 12 oz/yd2 non-woven Geotextile shall be placed right after shaping ditch cross section to the design level and slopes and as per the manufacturer specifications.
- 9-The Contractor shall inform Baffinland Iron Mine Inc. Representative about any findings that may affect the process of construction.
- 10-All construction work shall be carried out with respect to the drawings and specifications stated herein and as directed by Baffinland Iron Mine Inc. Representative.

FOR REFERENCE ONLY, UNLESS SIGNED & SEALED

**Baffinland**

2275 Upper Middle Road East, Suite 300, Oakville, Canada, L6H 0C3 www.baffinland.com

BAFFINLAND IRON MINE CORPORATION

PROJECT:


WRF POND EXPANSION
DRAINAGE SYSTEM
East DITCH

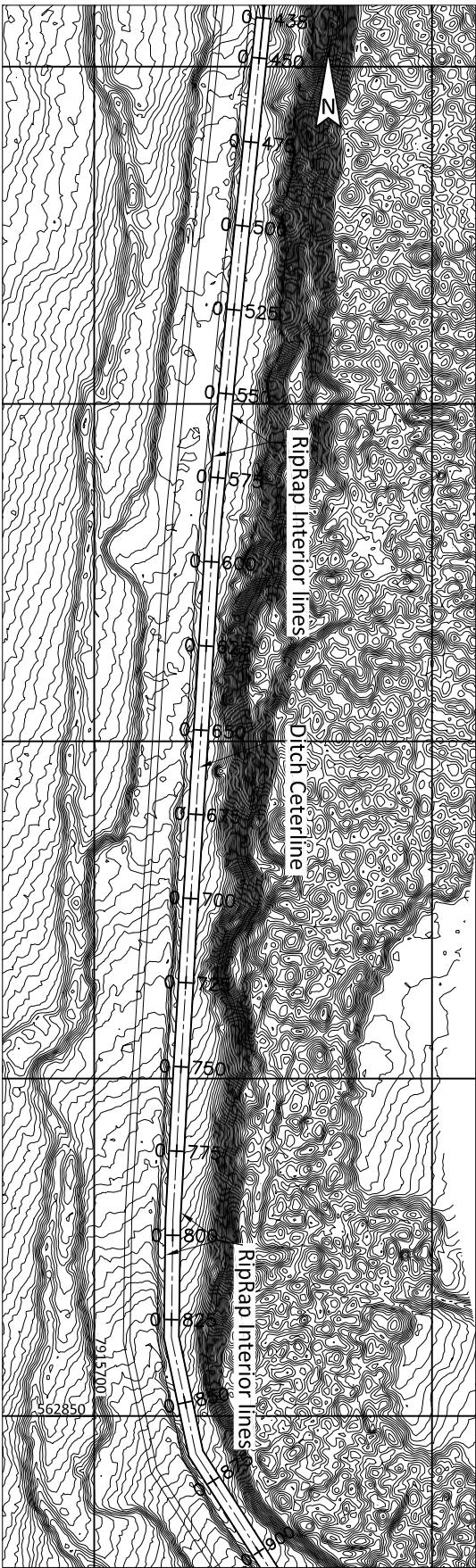
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PLAN & PROFILE

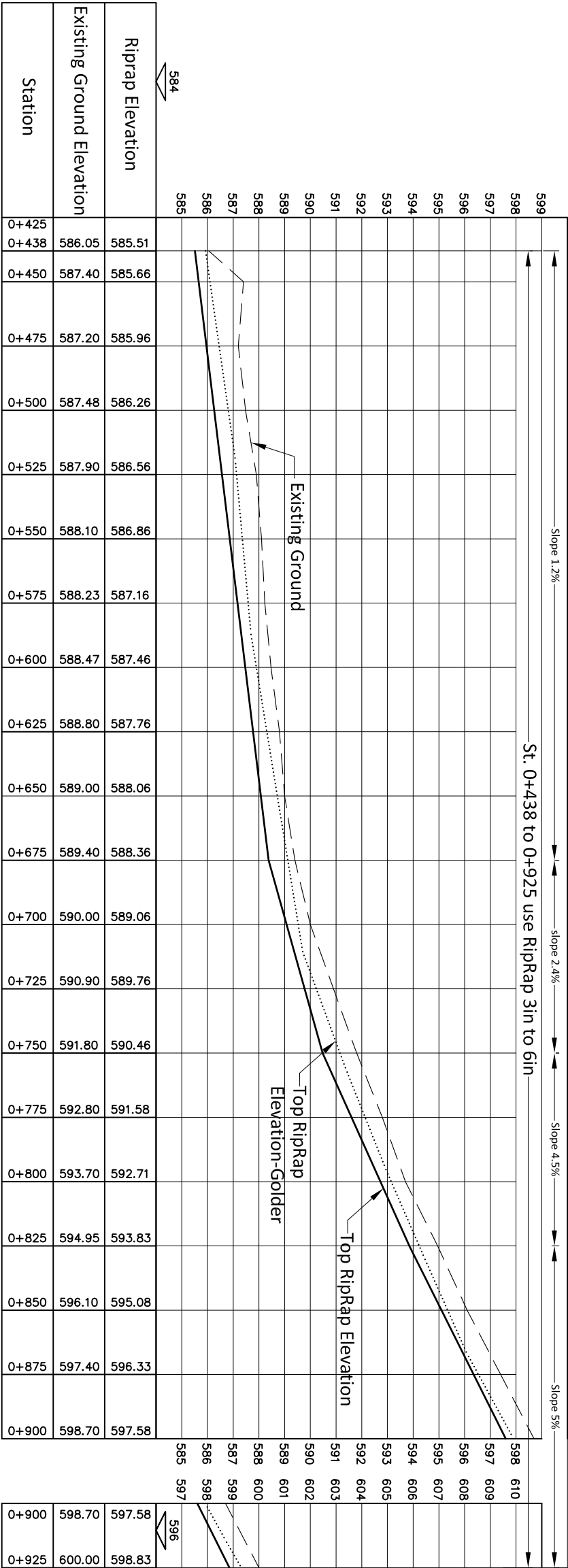
PROJECTED: A NAJEV APPROVED: A KNOWLTON

SCALE: DATE: 07-02-2021 REV. 0

 DRAWING NO.: 210103



Plan
Scale 1:2000



Notes:

- 1-All dimensions are in meters unless noted otherwise.
- 2-Ditch typical cross section shown in the drawings is for cut in soft soil only.
- 3-Upstream end of the ditch shall be sloped 2H:1V and covered by Geotextile and RipRap.
- 4-West rockfill with a reasonable size shall be used to replace unsuitable material and as directed by Baffinland Iron Mine Inc.
- 5-West rockfill material shall be properly placed, finished and compacted by the pocket excavator.
- 6-Rocfill 500mm minus ROQ shall be used for road construction, materials shall be placed in one layer and compacted by a Dozer.
- 7-Roc fill layer shall be 1m thick placed in such away that follows the existing ground surface.
- 8- 12 oz/yd2 non-woven Geotextile shall be placed right after shaping ditch cross section to the design level and slopes and as per the manufacturer specifications.
- 9-The Contractor shall inform Baffinland Iron Mine Inc. Representative about any findings that may affect the process of construction.
- 10-All construction work shall be carried out with respect to the drawings and specifications stated herein and as directed by Baffinland Iron Mine Inc. Representative.

FOR REFERENCE ONLY, UNLESS SIGNED & SEALED



2275 Upper Middle Road East, Suite 300, Oakville, Canada L6H 0C3 WWW.baffinland.com

BAFFINLAND IRON MINE CORPORATION

PROJECT:
WRF POND EXPANSION
DRAINAGE SYSTEM
WEST DITCH

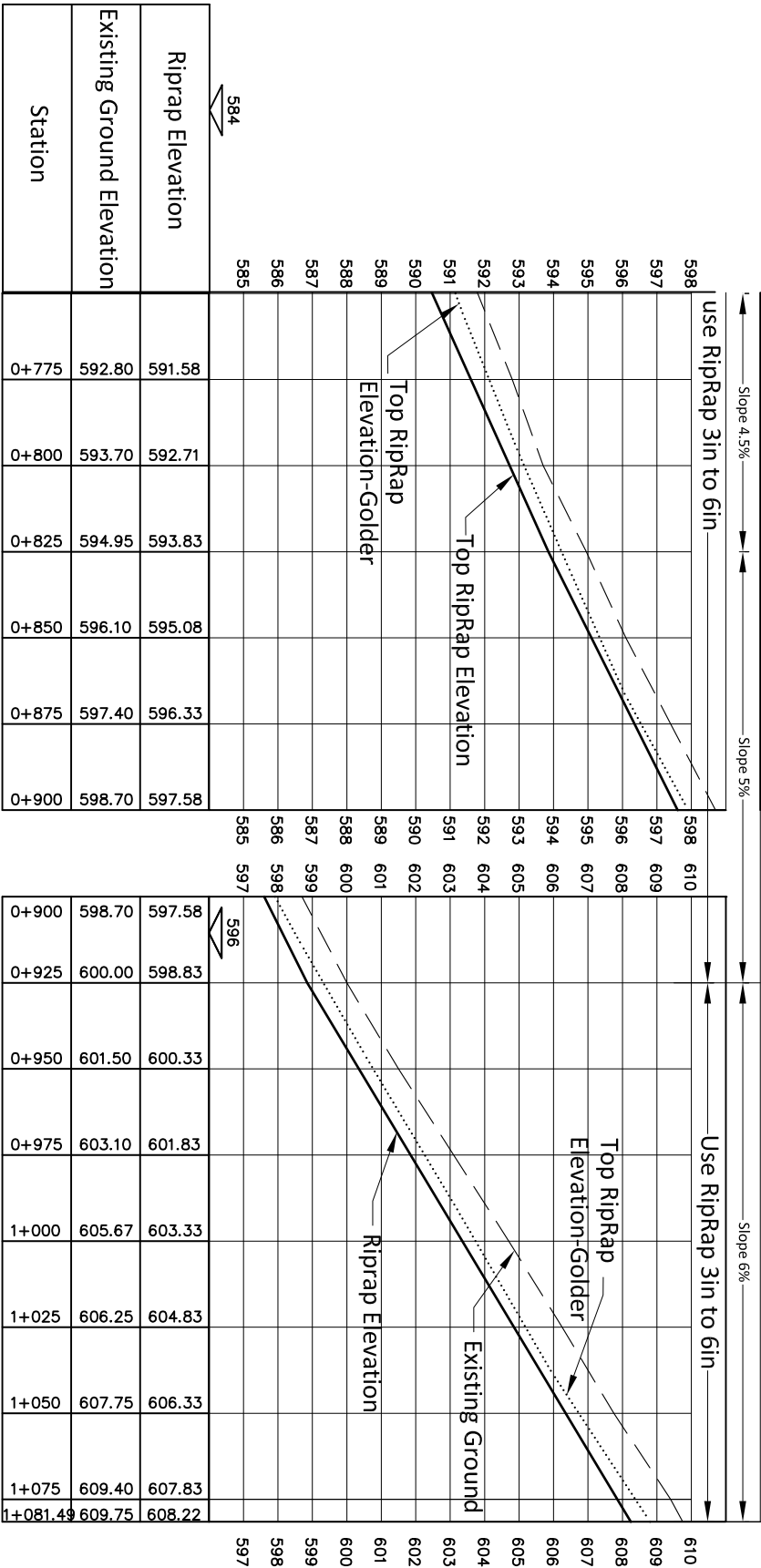
TITLE:
PLAN & PROFILE

PROJECTED: A NAJEV APPROVED: A KNOWLTON

SCALE: DRAWING NO.: 210101 DATE: 07-02-2021 REV. 0



Plan
Scale 1:2000



Longitudinal Profile
Scale H 1:2000
V 1:200


- Notes:
- 1-All dimensions are in meters unless noted otherwise.
 - 2-Ditch typical cross section shown in the drawings is for cut in soft soil only.
 - 3-Upstream end of the ditch shall be sloped 2H:1V and covered by Geotextile and Riprap.
 - 4-West rockfill with a reasonable size shall be used to replace unsuitable material and as directed by Baffinland Iron Mine Inc. Representative.
 - 5-West rockfill material shall be properly placed, finished and compacted by the pocket excavator.
 - 6- Rocfill 500mm minus ROQ shall be used for road construction, materials shall be placed in one layer and compacted by a Dozer.
 - 7-Roc fill layer shall be 1m thick placed in such away that follows the existing ground surface.
 - 8- 12 oz/yd2 non-woven Geotextile shall be placed right after shaping ditch cross section to the design level and slopes and as per the manufacturer specifications.
 - 9-The Contractor shall inform Baffinland Iron Mine Inc. Representative about any findings that may affect the process of construction.
 - 10-All construction work shall be carried out with respect to the drawings and specifications stated herein and as directed by Baffinland Iron Mine Inc. Representative.

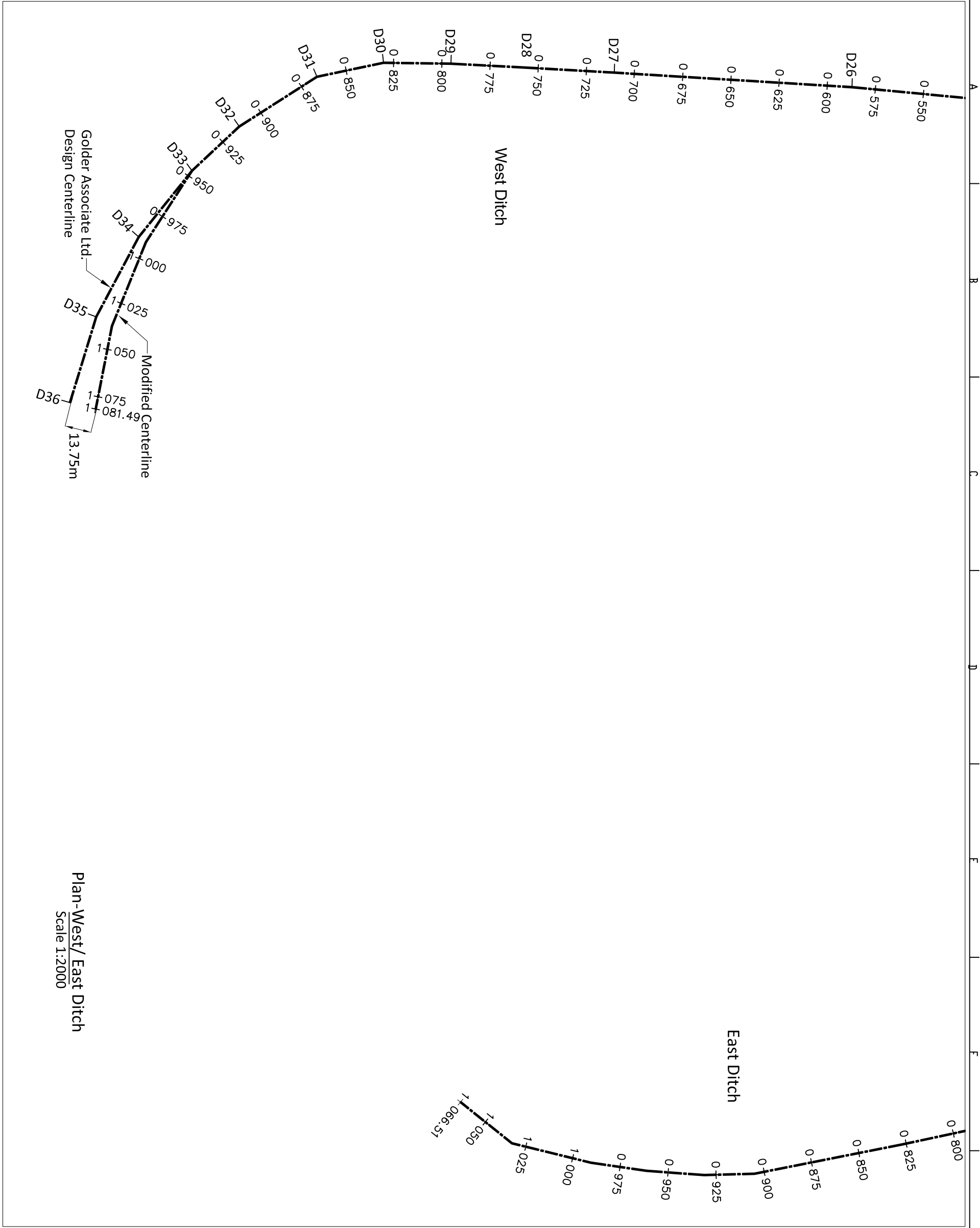
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2275 Upper Middle Road East, Suite 300, Oakville, Canada, L6H 0C3 www.baffinland.com

PROJECT: **WRF POND EXPANSION
DRAINAGE SYSTEM
WEST DITCH**

TITLE: **PLAN & PROFILE**

PROJECTED: A NAJEV		APPROVED: A KNOWLTON	
SCALE: 		DATE: 07-02-2021	
DRAWING NO.: 210102		REV. 0	



Notes:

- 1-All dimensions are in meters unless noted otherwise.
- 2-Ditch typical cross section shown in the drawings is for cut in soft soil only.
- 3-Upstream end of the ditch shall be sloped 2H:1V and covered by Geotextile and RipRap.
- 4-West rockfill with a reasonable size shall be used to replace unsuitable material and as directed by Baffinland Iron Mine Inc. Representative.
- 5-West rockfill material shall be properly placed, finished and compacted by the pocket excavator.
- 6-Rocfill 500mm minus ROQ shall be used for road construction, materials shall be placed in one layer and compacted by a Dozer.
- 7-Roc fill layer shall be 1m thick placed in such away that follows the existing ground surface.
- 8- 12 oz/yd² non-woven Geotextile shall be placed right after shaping ditch cross section to the design level and slopes and as per the manufacturer specifications.
- 9-The Contractor shall inform Baffinland Iron Mine Inc. Representative about any findings that may affect the process of construction.
- 10-All construction work shall be carried out with respect to the drawings and specifications stated herein and as directed by Baffinland Iron Mine Inc. Representative.

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BAFFINLAND IRON MINE CORPORATION

PROJECT:

WRF POND EXPANSION
DRAINAGE SYSTEM
WEST DITCH AND EAST DITCH

TITLE:

WEST DITCH ALIGNMENT MODIFICATION

PROJECTED: A NAJEY

APPROVED: A KNOWLTON

SCALE:

DATE: 07-02-2021



DRAWING NO.: 210101

REV. 0

Notes:
1-All dimensions are in meters unless noted otherwise.

PROJECTED: A NAUEY

SCALE:

DRAWING NO.: 210103

APPROVED: A KNOWLTON

DATE: 07-02-2021

REV. 0

TITLE:

PLAN & AS-BUILT ELEVATION

PROJECT:

WRF POND EXPANSION
DRAINAGE SYSTEM
East & West DITCH

2275 Upper Middle Road East, Suite 300, Oakville, Canada, L6H 0C3

WWW.baffinland.com

BAFFINLAND IRON MINE CORPORATION

Station	N (m)	E (m)	Riprap Elev. (m)	As-Built Elev. (m)	Slope
0+438	7916114	562900	585.51	585.573	1.20%
0+450	7916103	562898.9	585.66	585.699	
0+475	7916078	562896.4	585.96	585.881	
0+500	7916053	562893.8	586.26	586.265	
0+525	7916028	562891.4	586.56	586.531	
0+550	7916003	562889	586.86	586.992	1.20%
0+575	7915978	562886.6	587.16	587.105	
0+600	7915953	562884.7	587.46	587.429	
0+625	7915928	562883.2	587.76	587.636	
0+650	7915903	562881.6	588.06	587.982	
0+675	7915878	562880.1	588.36	588.353	2.80%
0+700	7915853	562878.6	588.06	588.129	
0+725	7915828	562877.1	588.76	588.995	
0+750	7915804	562875.7	590.46	590.874	
0+775	7915779	562874.4	591.59	591.720	
0+800	7915754	562873.2	592.71	592.764	4.50%
0+825	7915729	562872.9	593.84	593.888	
0+850	7915704	562876.9	595.09	594.901	
0+875	7915681	562885.2	596.34	596.394	
0+900	7915660	562898.7	597.59	597.594	
0+925	7915640	562913.9	598.84	599.059	
0+950	7915622	562931.3	600.34	600.389	
0+975	7915606	562950.8	601.84	602.021	
1+000	7915592	562971.2	603.34	603.759	
1+025	7915580	562993.3	604.84	605.128	
1+050	7915571	563016.2	606.34	606.789	6%
1+075	7915564	563040.1	607.84	608.664	
1+099	7915562	563046.3	608.23		

Station	N (m)	E (m)	Riprap Elev. (m)	As-Built Elev. (m)	Slope
0+683.3	7916132	563399.3	604.34	604.281	
0+700	7916116	563403.8	605.15	605.209	
0+725	7916092	563410.6	606.38	606.437	
0+750	7916067	563416.9	607.60	607.889	
0+775	7916043	563422.2	608.83	608.741	
0+800	7916019	563427.4	610.05	610.101	4.90%
0+825	7915994	563432.7	611.28	611.302	
0+850	7915970	563437.5	612.50	612.52	
0+875	7915945	563442.4	613.73	613.65	
0+900	7915921	563447.3	614.95	615.025	
0+925	7915896	563448.8	616.33	616.463	
0+950	7915871	563447.6	617.70	617.802	
0+975	7915846	563444.8	619.08	618.968	
1+000	7915821	563440.2	620.45	620.812	
1+025	7915797	563434.3	621.83	621.926	
1+050	7915776	563421.5	623.20	623.19	5.50%
1+065.1	7915763	563411.2	624.11	624.251	

The plan view illustrates the layout of the WRF Pond Expansion Drainage System. It features a central 'WRF Pond' area. To the north, an 'Existing Access Road' runs parallel to the 'East Ditch / 2020'. A 'West Ditch / 2020' is shown branching off from the East Ditch. To the east, an 'Access Road' and 'East Ditch / 2021' are shown, with a 'Waste Rock Dump Road Existing' running parallel to the 2021 ditch. The 'West Ditch / 2021' is shown branching off from the 2021 ditch. The plan includes stationing along the ditches and roads, with elevations provided for key points. A scale of 1:5000 is indicated.

8 7 6 5 4 3 2 1

A B C D E F F H

8 7 6 5 4 3 2 1

G H

Nonwoven Geotextiles

1. Product Description

Needle-punched nonwoven geotextiles are made from polypropylene fibres that are tangled together in a needle-punching process. The fibres may be made in continuous or short lengths and achieve their strength by interlocking. Needle-punched nonwoven geotextiles have excellent water flow rates and are used for filtration of soil fines. Needle-punched nonwoven geotextiles have been used in drainage applications including trench drains (also known as french drains), as a wrapping for perforated pipe, for erosion protection, for the separation of a roads sub base and base course, and combined with three-dimensional structures to create prefabricated drains. They are also commonly used with geomembranes to provide a protective cushion. Needle-punched nonwoven primary functions: filtration; separation; protection; drainage.

Looking for something else? We've got you covered.

[Looking for a more economical solution for soil separation?](#)

[Show me more geotextile products](#)

[Reach out to one of our experts](#)

2. Technical Data

Materials information is on page 2.

3. Installation

General Installation: Place the roll of needle-punched nonwoven geotextile at the top of the slope/grade and roll down grade, over lap successive and adjacent rolls by 450mm minimum. Do not allow vehicles to drive directly on the geotextile. Geotextile should be stored such that it is protected from rain and direct sunlight. **Geotextile Filtration for Trench Drain (French Drain):** Cut the geotextile to width and install such that there is sufficient material to wrap around the drain system with a overlap at the top the width of the trench. **Other Uses:** Please contact your local Layfield Representative for installation instructions for all other uses.



4. Availability and Cost

Available from Layfield or distributors. Call 425-254-1075 Pacific time, 780-453-6731 Mountain time, or 905-761-9123 Eastern time

5. Manufactured For

Layfield USA Corp.
Layfield Canada Ltd.

6. Warranty

Products sold will meet Layfield's published specifications at time of sale. Full warranty details are available from Layfield.

7. Maintenance

Once geotextiles and geogrids are installed and carefully backfilled they do not require ongoing maintenance.

8. Filing Systems

9.

27 Nov 2018	Non-Woven Needle-Punched Geotextiles - US Values									
	ASTM	LP3.5	LP4	LP4.5	LP6	LP7	LP8	LP10	LP12	LP16
Grab Tensile (lbs)	D4632	90	100	120	160	180	205	250	300	380
Elongation (%)	D4632	50	50	50	50	50	50	50	50	50
Tear (lbs)	D4533	40	45	50	60	75	80	100	115	140
CBR Punc (lbs)	D6241	250	250	310	410	450	500	700	800	1025
AOS (sieve)	D4751	50	70	70	70	70	80	100	100	100
Permittivity (sec-1)	D4491	2.0	2.0	1.7	1.5	1.4	1.4	0.8 ³	0.8 ³	0.7
Water Flow (gpm/ft ²)	D4491	145	140	120	110	100	90	75	65	50
UV (500 hrs)	D4355	70%	70%	70%	70%	70%	70%	70%	70%	70%
Roll Size (ft)		15 x 360	15 x 360	15 x 360	15 x 300 ²	15 x 300 ²	15 x 300 ²	15 x 300	15 x 300	15 x 150
Roll Weight ¹ (lbs)		160	167	190	202	220	250	308	400	250
<p>Note¹: Typical values. All other values are minimum average roll values (MARV).</p> <p>Note²: LP6, LP7, and LP8 may be 15 x 360 ft depending on inventory.</p> <p>Note³: LP10 also available in 1.2 and LP12 in 1.0</p>										

10.

27 Nov 2018	Non-Woven Needle-Punched Geotextiles - Metric Values									
	ASTM	LP3.5	LP4	LP4.5	LP6	LP7	LP8	LP10	LP12	LP16
Grab Tensile (N)	D4632	401	445	533	711	800	911	1,112	1,330	1,690
Elongation (%)	D4632	50	50	50	50	50	50	50	50	50
Tear (N)	D4533	178	200	222	267	333	356	444	511	623
CBR Punc (N)	D6241	1110	1110	1380	1820	2000	2220	3114	3510	4560
AOS (microns)	D4751	250	212	212	212	212	180	150	150	150
Permittivity (sec-1)	D4491	2.0	2.0	1.7	1.5	1.4	1.4	0.8 ³	0.8 ³	0.7
Water Flow (l/min/m ²)	D4491	5,900	5,689	4,885	4,480	4,074	3,657	3,056	2,650	2,035
UV (500 hrs)	D4355	70%	70%	70%	70%	70%	70%	70%	70%	70%
Roll Size (m)		4.57 x 110	4.57 x 110	4.57 x 110	4.57 x 91.4	4.57 x 91.4	4.57 x 91.4	4.57 x 91.4	4.57 x 91.4	4.57 x 45.7
Roll Weight ¹ (kg)		73	78	86	92	99	113	140	181	112

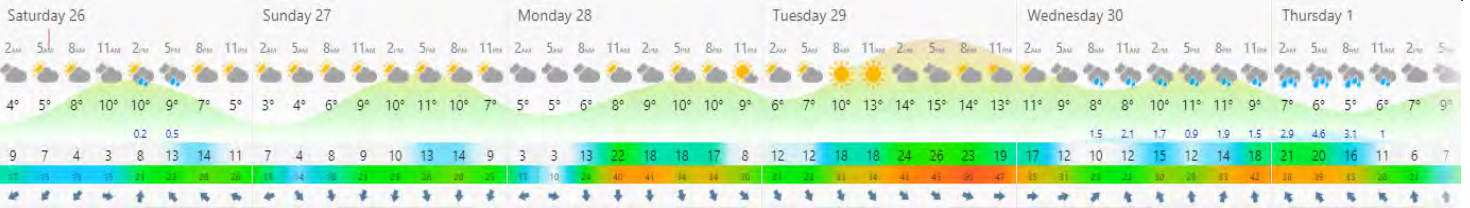


www.LayfieldConstructionProducts.com
customerservice@layfieldgroup.com

Date: June 26, 2021

Working Hours: 6:00am to 6:00pm

Job No: CC006



PROJECT SAFETY									
Project to Date	First Aid	Medical Aid	Property Damage	Equipment Damage	Environmental Release	Fire	Vehicle / Equipment Incident (Moving)	Project Total	Near Misses
	0	0	0	0	0	0	0	0	0

DESCRIPTION OF INCIDENTS	
Shift	Toolbox Topic
Days	Hand Safety
TOTAL REPORTABLE ACCIDENT FREQUENCY RATE	
LOST TIME ACCIDENT FREQUENCY RATE	
	0
	0

DAILY ACTIVITIES COMPLETED	
Construction on the WRF perimeter ditch west side. Relocated equipment to 106km laydown	

PLANNED ACTIVITIES FOR NEXT DAY	
Continue constructing WRF perimeter ditch, move filtercloth to worksite	

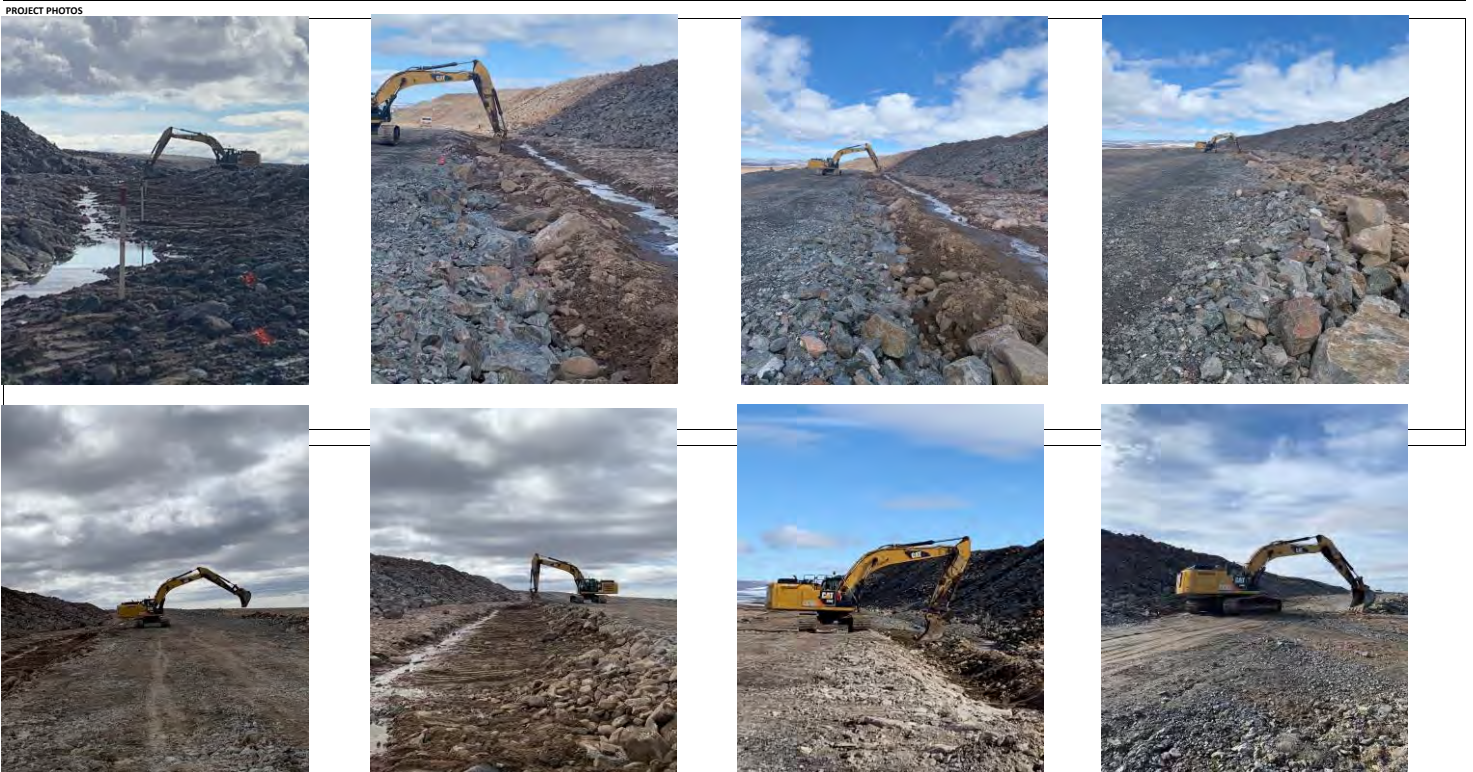
CONTRACTOR REMARKS	
Waiting confirmation on proposed access route into Borehole DH21-20 & DH21-21. Waiting on permits for 105 pond. Ripper Shanks deliver to worksite area,	

PROJECT QUANTITIES	

Waste Rock Facility Expansion Perimeter Ditch					
Station Number	Ditch Status	Comments	Station Number	Ditch Status	Comments
0+0 - 0+25	15%	Straightening road shoulder, removing previous ditch spoil & exposing frost	0+250 - 0+275		
0+25 - 0+50	15%	Straightening road shoulder, removing previous ditch spoil & exposing frost	0+275 - 0+300		
0+50 - 0+75	15%	Straightening road shoulder, removing previous ditch spoil & exposing frost	0+300 - 0+325		
0+75 - 0+100	15%	Straightening road shoulder, removing previous ditch spoil & exposing frost	0+325 - 0+350		
0+100 - 0+125	15%	Straightening road shoulder, removing previous ditch spoil & exposing frost	0+350 - 0+375		
0+125 - 0+150	15%	Straightening road shoulder, removing previous ditch spoil & exposing frost	0+375 - 0+400		
0+150 - 0+175	15%	Straightening road shoulder, removing previous ditch spoil & exposing frost	0+400 - 0+425		
0+175 - 0+200	15%	Straightening road shoulder, removing previous ditch spoil & exposing frost	0+425 - 0+450		
0+200 - 0+225			0+450 - 0+475		
0+225 - 0+250			0+475 - 0+500		

MANPOWER DEMOGRAPHICS				
COMPANY	POSITION	HOURS	COUNT	
Nuna East	Robert Albert	Foreman	12.0	1
Nuna East	Gregory Coull	Multi Operator	12.0	1
Nuna East	Dwain McDonald	Multi Operator	12.0	1
Nuna East	Neil Courtenaille	Rock Truck Driver	12.0	1
Nuna East	Ken Humby	Supervision	12.0	1
TOTAL		61	5	

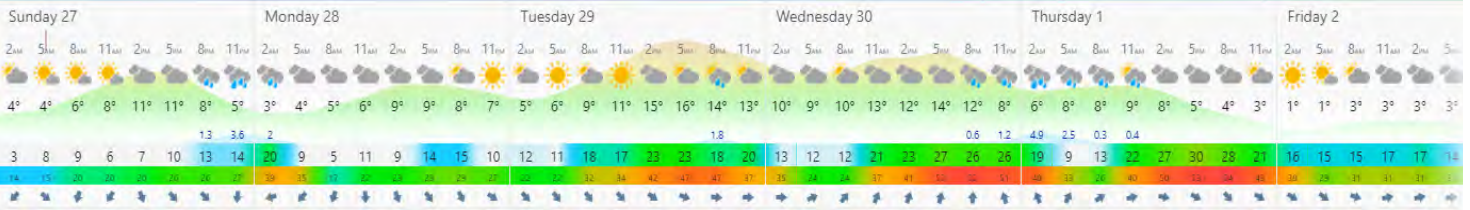
EQUIPMENT ONSITE				
Description	Unit	Op Hrs	Status	Comments
		05/NS		
Cat 349 Excavator	326508	0.0	Up	Missing GPS Sensor cover
Cat 336 Excavator	326513	10.0	Up	
Water Truck	312728	0.0	Up	
Cat 988 Loader	326801	0.0	Up	
Cat 98 Dozer	327307	0.0	Up	
Cat 98 Dozer	327306	0.0	Up	
Cat 745 Rock Truck	325803	0.0	Up	
Cat Compactor	327901	0.0	Up	



Date: June 27, 2021

Working Hours: 6:00am to 6:00pm

Job No: CC006



PROJECT SAFETY	First Aid	Medical Aid	Property Damage	Equipment Damage	Environmental Release	Fire	Vehicle / Equipment Incident (Moving)	Project Total	Near Misses	Hazard ID Cards
Project to Date	0	0	0	0	0	0	0	0	0	0

DESCRIPTION OF INCIDENTS	
Shift	Toolbox Topic
Days	Right Tool for the Job
TOTAL REPORTABLE ACCIDENT FREQUENCY RATE	0
LOST TIME ACCIDENT FREQUENCY RATE	0

DAILY ACTIVITIES COMPLETED	
Construction on the WRF perimeter ditch west side. Moved Ripper shanks and filter cloth to work face	

PLANNED ACTIVITIES FOR NEXT DAY	
Continue constructing WRF perimeter ditch,	

CONTRACTOR REMARKS	
Waiting confirmation on proposed access route into Borehole DH21-20 & DH21-21. Waiting on permits for 105 pond.	

PROJECT QUANTITIES	
--------------------	--

Station Number	Ditch Status	Comments	Station Number	Ditch Status	Comments
0+438 - 0+450	25%	Remove material to frost elevation	0+775 - 0+800		
0+450 - 0+475	25%	Remove material to frost elevation	0+800 - 0+825		
0+475 - 0+500	25%	Remove material to frost elevation	0+825 - 0+850		
0+500 - 0+525	25%	Remove material to frost elevation	0+850 - 0+875		
0+525 - 0+550	25%	Remove material to frost elevation	0+875 - 0+900		
0+550 - 0+575	25%	Remove material to frost elevation	0+900 - 0+925		
0+575 - 0+600	25%	Remove material to frost elevation	0+925 - 0+950		
0+600 - 0+625	15%	Straightening road shoulder, removing previous ditch spoil & exposing frost	0+950 - 0+975		
0+625 - 0+650	15%	Straightening road shoulder, removing previous ditch spoil & exposing frost	0+975 - 1+000		
0+650 - 0+675	15%	Straightening road shoulder, removing previous ditch spoil & exposing frost	1+000 - 1+025		
0+675 - 0+700			1+025 - 1+050		
0+700 - 0+725			1+050 - 1+075		
0+725 - 0+750			1+075 - 1+1081		
0+750 - 0+775					

COMPANY	POSITION	HOURS	COUNT
Nuna East	Robert Abbott	12.0	1
Nuna East	Gregory Gould	12.0	1
Nuna East	Dwain McDonald	12.0	1
Nuna East	Neil Courtenay	12.0	1
Nuna East	Ken Humby	12.0	1
TOTAL		61	5

DESCRIPTION	Unit	Op Hrs	Status	Comments
Cat 340 Excavator	330208	0.0	Up	Missing GPS Sensor cover
Cat 336 Excavator	330613	0.0	Up	
Water Truck	N1728	0.0	Up	
Cat 980 Loader	330805	0.0	Up	
Cat 08 Dozer	327807	0.0	Up	
Cat 08 Dozer	327906	0.0	Up	
Cat 745 Rock Truck	321803	0.0	Up	
Cat Compactor	327901	0.0	Up	

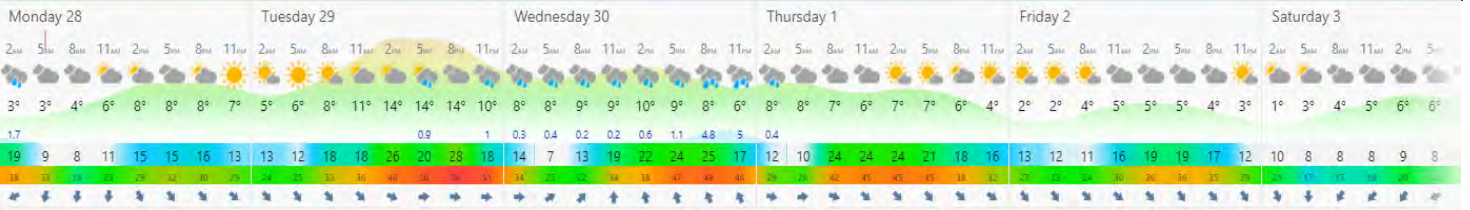
PROJECT PHOTOS



Date: June 28, 2023

Working Hours: 6:00am to 6:00pm

Job No: CC006



PROJECT SAFETY	First Aid	Medical Aid	Property Damage	Equipment Damage	Environmental Release	Fire	Vehicle / Equipment Incident (Moving)	Project Total	Near Misses	Hazard ID Cards
Project to Date	0	0	0	0	0	0	0	0	0	0

DESCRIPTION OF INCIDENTS	Shift	Toolbox Topic
	Days	Altitude
TOTAL REPORTABLE ACCIDENT FREQUENCY RATE	0	
LOST TIME ACCIDENT FREQUENCY RATE	0	

DAILY ACTIVITIES COMPLETED
Construction on the WRF perimeter ditch west side. Trim berm along 104 stockpile area in preparation for ROQ haul

PLANNED ACTIVITIES FOR NEXT DAY
Continue constructing WRF perimeter ditch,

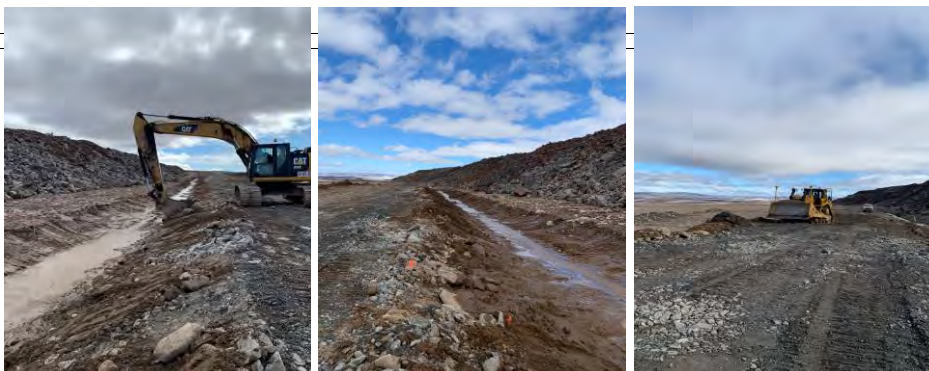
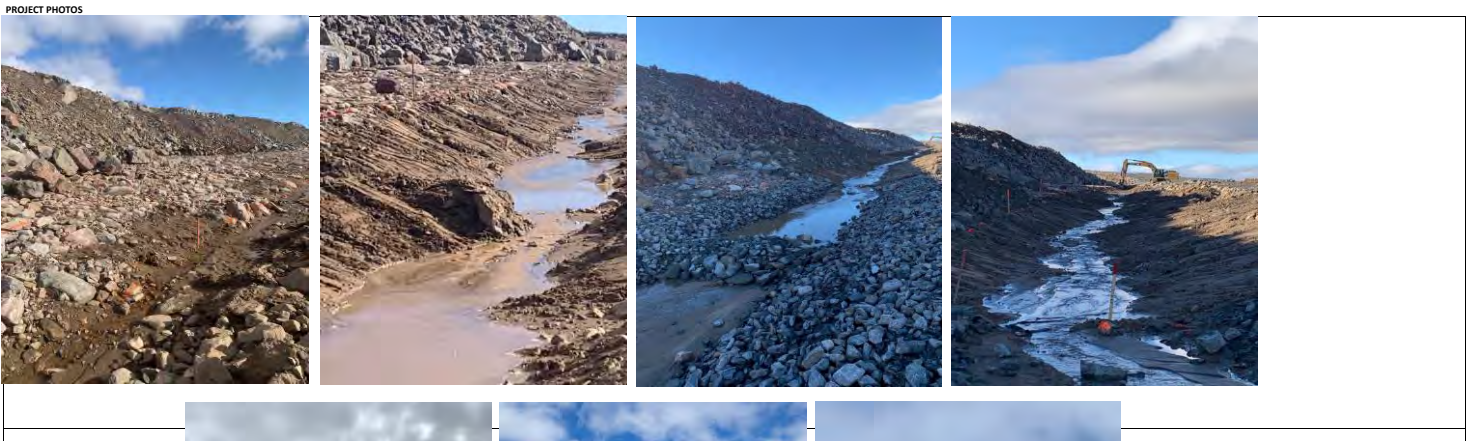
CONTRACTOR REMARKS
Waiting on permits for 105 pond. Considerable frost in WRF new ditch

PROJECT QUANTITIES

Waste Rock Facility Expansion Perimeter Ditch					
Station Number	Ditch Status	Comments	Station Number	Ditch Status	Comments
0+438 - 0+450	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+775 - 0+800		
0+450 - 0+475	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+800 - 0+825		
0+475 - 0+500	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+825 - 0+850		
0+500 - 0+525	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+850 - 0+875		
0+525 - 0+550	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+875 - 0+900		
0+550 - 0+575	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+900 - 0+925		
0+575 - 0+600	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+925 - 0+950		
0+600 - 0+625	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+950 - 0+975		
0+625 - 0+650	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+975 - 1+000		
0+650 - 0+675	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+000 - 1+025		
0+675 - 0+700	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+025 - 1+050		
0+700 - 0+725			1+050 - 1+075		
0+725 - 0+750			1+075 - 1+1081		
0+750 - 0+775					

MANPOWER DEMOGRAPHICS			
COMPANY	POSITION	HOURS	COUNT
Nuna East	Robert Abbott	Foreman	12.0
Nuna East	Gregory Gould	Multi Operator	12.0
Nuna East	Dwain McDonald	Multi Operator	12.0
Nuna East	Neil Courtenaille	Rock Truck Driver	12.0
Nuna East	Ken Humby	Supervision	12.0
TOTAL		61	5

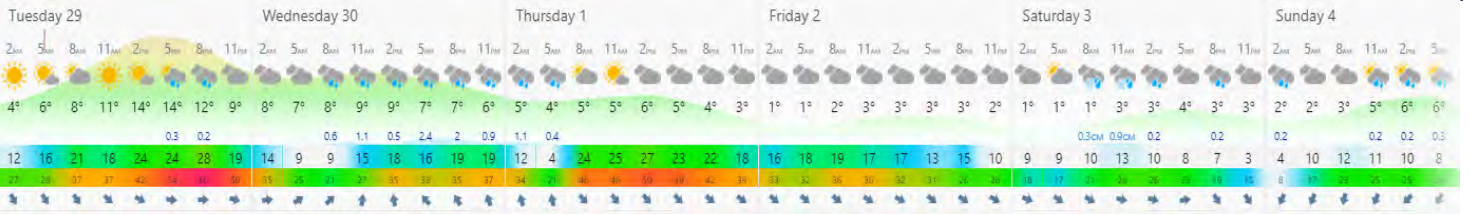
EQUIPMENT ONSITE				
Description	Unit	Op Hrs	Status	Comments
Cat 340 Excavator	320208	1.0	Up	Missing GPS Sensor cover
Cat 336 Excavator	320513	10.0	Up	
Water Truck	N1728	0.0	Up	
Cat 980 Loader	320805	0.0	Up	
Cat D8 Dozer	327807	0.0	Up	
Cat D8 Dozer	327306	0.0	Up	
Cat 745 Rock Truck	321803	0.0	Up	
Cat Compactor	327901	0.0	Up	



Date: June 29, 2021

Working Hours: 6:00am to 6:00pm

Job No: CC006



PROJECT SAFETY	First Aid	Medical Aid	Property Damage	Equipment Damage	Environmental Release	Fire	Vehicle / Equipment Incident (Moving)	Project Total	Near Misses	Hazard ID Cards
Project to Date	0	0	0	0	0	0	0	0	0	0

DESCRIPTION OF INCIDENTS	
Shift	Toolbox Topic
Days	Glove Selection
TOTAL REPORTABLE ACCIDENT FREQUENCY RATE	0
LOST TIME ACCIDENT FREQUENCY RATE	0

DAILY ACTIVITIES COMPLETED	
Construction on the WRF perimeter ditch west side. Clear snow on east side of WRF for ditch layout	

PLANNED ACTIVITIES FOR NEXT DAY	
Finish snow clearing and continue constructing WRF perimeter ditch,	

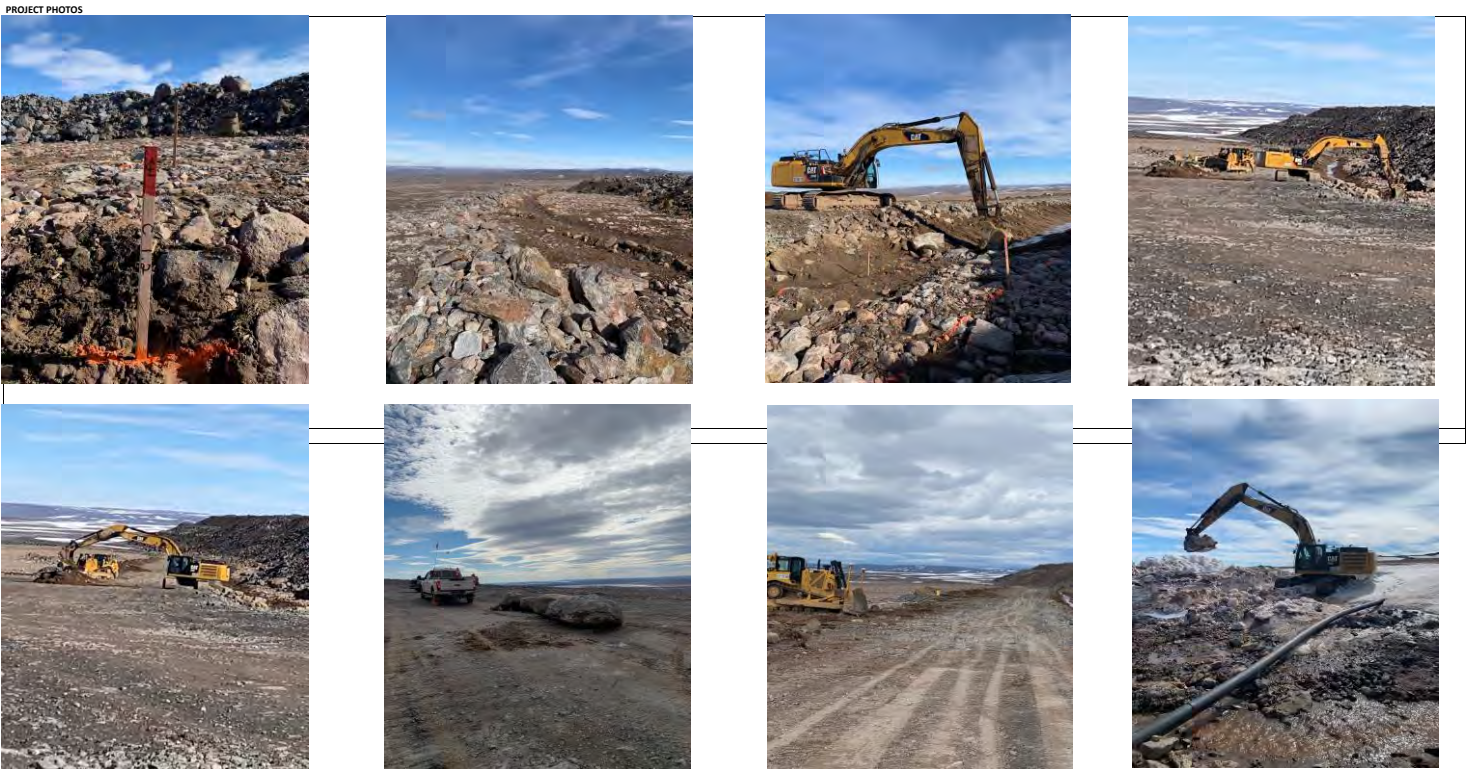
CONTRACTOR REMARKS	
Waiting on permits for 105 pond. Considerable frost in WRF new ditch	

PROJECT QUANTITIES	
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Waste Rock Facility Expansion Perimeter Ditch				
Station Number	Ditch Status	Comments	Station Number	Ditch Status
0+438 - 0+450	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+775 - 0+800	
0+450 - 0+475	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+800 - 0+825	
0+475 - 0+500	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+825 - 0+850	
0+500 - 0+525	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+850 - 0+875	
0+525 - 0+550	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+875 - 0+900	
0+550 - 0+575	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+900 - 0+925	
0+575 - 0+600	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+925 - 0+950	
0+600 - 0+625	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+950 - 0+975	
0+625 - 0+650	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+975 - 1+000	
0+650 - 0+675	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+000 - 1+025	
0+675 - 0+700	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+025 - 1+050	
0+700 - 0+725	30%	Remove material down to frost line	1+050 - 1+075	
0+725 - 0+750	30%	Remove material down to frost line	1+075 - 1+1081	
0+750 - 0+775				

MANPOWER DEMOGRAPHICS			
COMPANY	POSITION	HOURS	COUNT
Nuna East	Robert Abbott	Foreman	12.0
Nuna East	Gregory Gould	Multi Operator	12.0
Nuna East	Dustin McDonald	Multi Operator	12.0
Nuna East	Neil Courtenaille	Rock Truck Driver	12.0
Nuna East	Ken Humby	Supervision	12.0
TOTAL		61	5

EQUIPMENT ONSITE				
Description	Unit	Op Hrs	Status	Comments
		05/NS		
Cat 340 Excavator	320208	0.0	Up	Missing GPS Sensor cover
Cat 336 Excavator	320613	7.5	Up	lost bolt from bucket quick attach assembly, found bolt at shop and repaired
Water Truck	N1728	0.0	Up	
Cat 980 Loader	320805	0.0	Up	
Cat 06 Dozer	327807	0.0	Up	
Cat 08 Dozer	327306	0.0	Up	
Cat 745 Rock Truck	321803	0.0	Up	
Cat Compactor	327901	0.0	Up	



Date: June 29, 2021

Working Hours: 6:00am to 6:00pm

Job No: CC006



Date: June 30, 2021

Working Hours: 6:00am to 6:00pm

Job No: CC006



PROJECT SAFETY	First Aid	Medical Aid	Property Damage	Equipment Damage	Environmental Release	Fire	Vehicle / Equipment Incident (Moving)	Project Total	Near Misses	Hazard ID Cards
Project to Date	0	0	0	0	0	0	0	0	0	0

DESCRIPTION OF INCIDENTS	Shift	Toolbox Topic
	Days	Mosquitoes
TOTAL REPORTABLE ACCIDENT FREQUENCY RATE	0	
LOST TIME ACCIDENT FREQUENCY RATE	0	

DAILY ACTIVITIES COMPLETED
Construction on the WRF perimeter ditch west side. Clear snow on east side of WRF for ditch layout

PLANNED ACTIVITIES FOR NEXT DAY
Continue constructing WRF perimeter ditch, as-built section of ditch bottom, place geotextile and RipRap in sectin of ditch at grade.

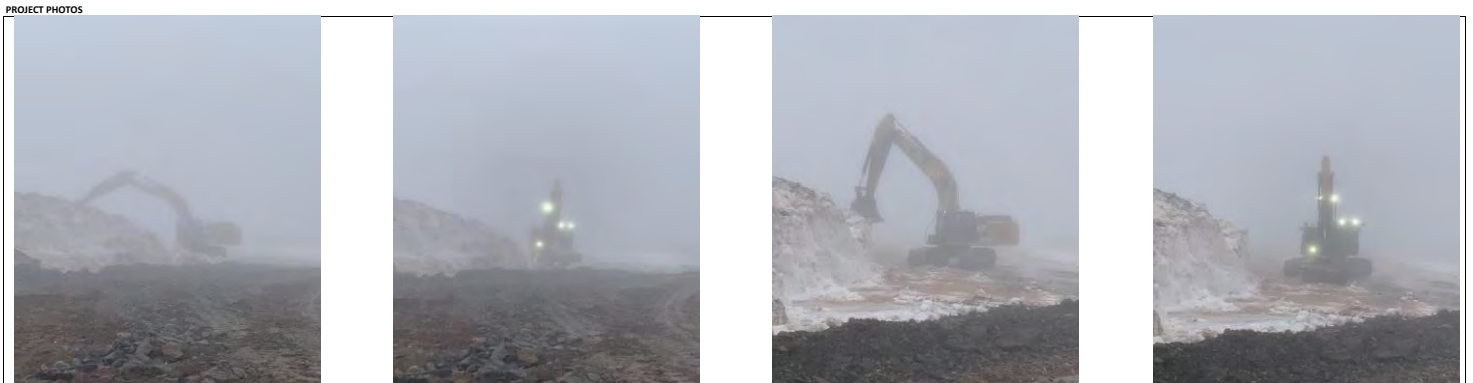
CONTRACTOR REMARKS
Waiting on permits for 105 pond. Considerable frost in WRF new ditch. Heavy fog on the mountain. Waiting on items to be moved at 104 laydown to allow drill access construction into DH21 -21

PROJECT QUANTITIES

Station Number	Ditch Status	Comments	Station Number	Ditch Status	Comments
0+438 - 0+450	70%	0.15 m - 0.25m of frost left to achieve ditch design grade	0+775 - 0+800	30%	Remove material down to frost line
0+450 - 0+475	70%	0.15 m - 0.25m of frost left to achieve ditch design grade	0+800 - 0+825	30%	Remove material down to frost line
0+475 - 0+500	70%	0.15 m - 0.25m of frost left to achieve ditch design grade	0+825 - 0+850	30%	Remove material down to frost line
0+500 - 0+525	70%	0.15 m - 0.25m of frost left to achieve ditch design grade	0+850 - 0+875	30%	Remove material down to frost line
0+525 - 0+550	70%	0.15 m - 0.25m of frost left to achieve ditch design grade	0+875 - 0+900	30%	Remove material down to frost line
0+550 - 0+575	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+900 - 0+925		
0+575 - 0+600	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+925 - 0+950		
0+600 - 0+625	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+950 - 0+975		
0+625 - 0+650	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+975 - 1+000		
0+650 - 0+675	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+000 - 1+025		
0+675 - 0+700	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+025 - 1+050		
0+700 - 0+725	30%	Remove material down to frost line	1+050 - 1+075		
0+725 - 0+750	30%	Remove material down to frost line	1+075 - 1+1081		
0+750 - 0+775	30%	Remove material down to frost line			

MANPOWER DEMOGRAPHICS					
COMPANY		POSITION	HOURS	COUNT	
	Nuna East	Robert Albert	Foreman	12.0	1
	Nuna East	Gregory Gould	Multi Operator	12.0	1
	Nuna East	Dwain McDonald	Multi Operator	12.0	1
	Nuna East	Nell Courtenaille	Rock Truck Driver	12.0	1
	Nuna East	Ken Humby	Supervision	12.0	1
TOTAL			61	5	

EQUIPMENT ONSITE	Description	Unit	Op Hrs	Status	Comments
	Cat 340 Excavator	330208	0.0	Up	Missing GPS Sensor cover
	Cat 336 Excavator	330513	10.0	Up	
	Water Truck	N1728	0.0	Up	
	Cat 980 Loader	320805	0.0	Up	
	Cat 06 Dozer	327807	0.0	Up	
	Cat 08 Dozer	327306	0.0	Up	
	Cat 745 Rock Truck	321803	0.0	Up	
	Cat Compactor	327901	0.0	Up	



Date: July 1, 2021

Working Hours: 6:00am to 6:00pm

Job No: CC006



PROJECT SAFETY										
Project to Date	First Aid	Medical Aid	Property Damage	Equipment Damage	Environmental Release	Fire	Vehicle / Equipment Incident (Moving)	Project Total	Near Misses	Hazard ID Cards
0	0	0	0	0	0	0	0	0	0	0

DESCRIPTION OF INCIDENTS	
Shift	Toolbox Topic
Days	Hazard Recognition
TOTAL REPORTABLE ACCIDENT FREQUENCY RATE	
LOST TIME ACCIDENT FREQUENCY RATE	
0	0

DAILY ACTIVITIES COMPLETED	
Construction on the WRF perimeter ditch west side. Start Access into DH21-21.	

PLANNED ACTIVITIES FOR NEXT DAY	
Continue constructing WRF perimeter ditch. Continue construction on access into DH21-21	

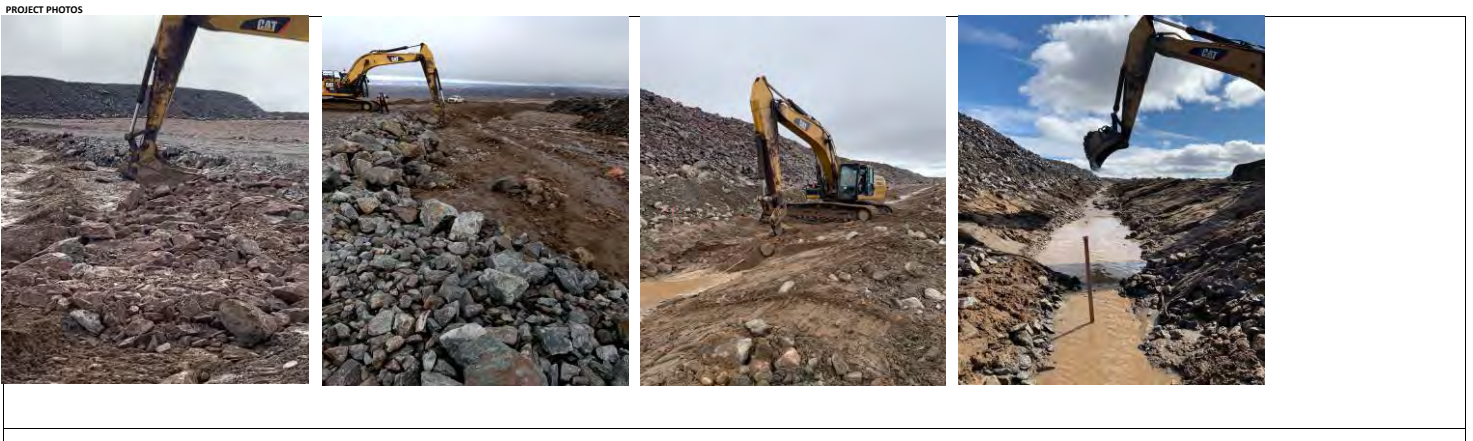
CONTRACTOR REMARKS	
Waiting on permits for 105 pond. Considerable frost in WRF new ditch. Toromont measured up for a ripper tip, said would bring one tomorrow.	

PROJECT QUANTITIES	

Waste Rock Facility Expansion Perimeter Ditch					
Station Number	Ditch Status	Comments	Station Number	Ditch Status	Comments
0+438 - 0+450	70%	Ripping frost to achieve ditch design grade, natural thaw not working	0+775 - 0+800	30%	Remove material down to frost line
0+450 - 0+475	70%	Ripping frost to achieve ditch design grade, natural thaw not working	0+800 - 0+825	30%	Remove material down to frost line
0+475 - 0+500	70%	0.15 m - 0.25m of frost left to achieve ditch design grade	0+825 - 0+850	30%	Remove material down to frost line
0+500 - 0+525	70%	0.15 m - 0.25m of frost left to achieve ditch design grade	0+850 - 0+875	30%	Remove material down to frost line
0+525 - 0+550	70%	0.15 m - 0.25m of frost left to achieve ditch design grade	0+875 - 0+900	30%	Remove material down to frost line
0+550 - 0+575	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+900 - 0+925	30%	Remove material down to frost line
0+575 - 0+600	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+925 - 0+950	30%	Remove material down to frost line
0+600 - 0+625	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+950 - 0+975		
0+625 - 0+650	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+975 - 1+000		
0+650 - 0+675	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+000 - 1+025		
0+675 - 0+700	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+025 - 1+050		
0+700 - 0+725	30%	Remove material down to frost line	1+050 - 1+075		
0+725 - 0+750	30%	Remove material down to frost line	1+075 - 1+1081		
0+750 - 0+775	30%	Remove material down to frost line			

MANPOWER DEMOGRAPHICS			
COMPANY	POSITION	HOURS	COUNT
Nuna East	Robert Abbott	12.0	1
Nuna East	Gregory Gould	12.0	1
Nuna East	Dwain McDonald	12.0	1
Nuna East	Nell Courtenaille	12.0	1
Nuna East	Ken Humby	12.0	1
TOTAL		61	5

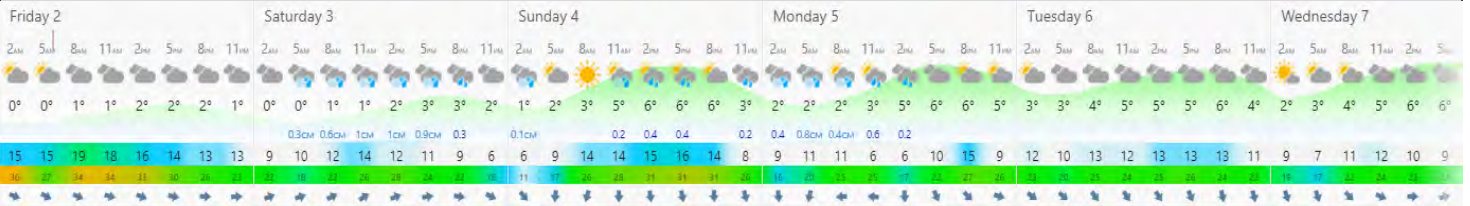
EQUIPMENT ONSITE				
Description	Unit	Op Hrs	Status	Comments
Cat 340 Excavator	320208	7.6	Up	Missing GPS Sensor cover
Cat 336 Excavator	320513	10.0	Up	
Water Truck	N1728	0.0	Up	
Cat 980 Loader	320805	0.0	Up	
Cat D6 Dozer	327807	0.0	Up	
Cat D8 Dozer	327806	0.0	Down	Emission fault codes
Cat 745 Rock Truck	321803	0.0	Up	
Cat Compactor	327801	0.0	Up	



Date: July 2, 2021

Working Hours: 6:00am to 6:00pm

Job No: CC006



PROJECT SAFETY	First Aid	Medical Aid	Property Damage	Equipment Damage	Environmental Release	Fire	Vehicle / Equipment Incident (Moving)	Project Total	Near Misses	Hazard ID Cards
Project to Date	0	0	0	0	0	0	0	0	0	0

DESCRIPTION OF INCIDENTS	Shift	Toolbox Topic
	Days	Recognizing Unsafe Conditions
TOTAL REPORTABLE ACCIDENT FREQUENCY RATE	0	
LOST TIME ACCIDENT FREQUENCY RATE	0	

DAILY ACTIVITIES COMPLETED
Construction on the WRF perimeter ditch west side. Access into DH21-21. Shaping ramp for ROQ stock pile

PLANNED ACTIVITIES FOR NEXT DAY
Continue constructing WRF perimeter ditch. Continue construction on access into DH21-21

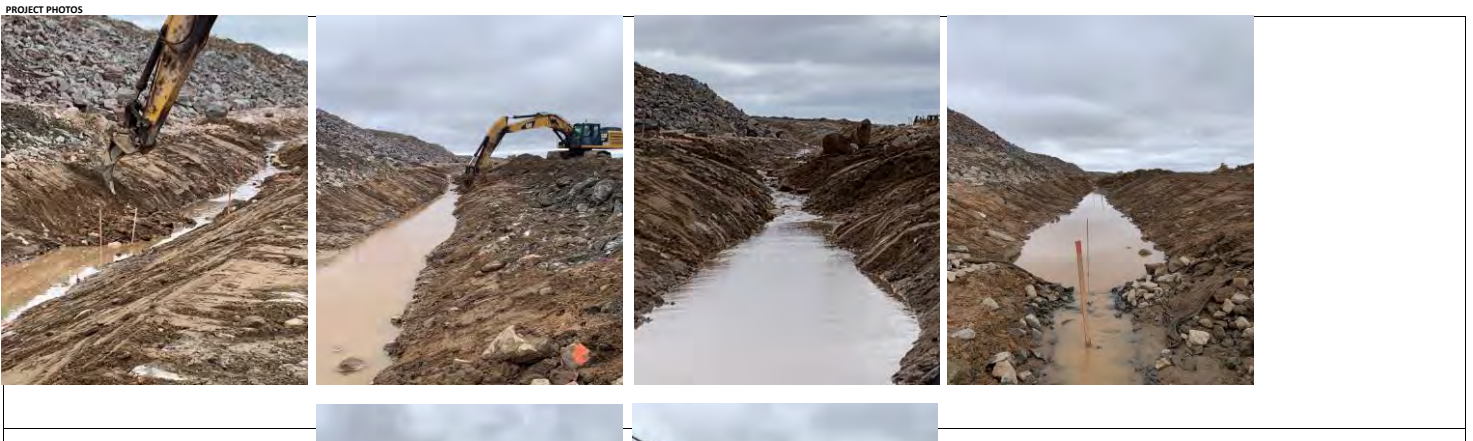
CONTRACTOR REMARKS
Waiting on permits for 105 pond. Considerable frost in WRF new ditch. Toromont measured up for a ripper tip, said would bring one tomorrow. Recent rain and thaw has softened pad for ROQ stockpile, will have to cap pad with ROQ to utilize area

PROJECT QUANTITIES

Waste Rock Facility Expansion Perimeter Ditch					
Station Number	Ditch Status	Comments	Station Number	Ditch Status	Comments
0+438 - 0+450	80%	Ditch bottom ripped to grade/shaped slopes	0+775 - 0+800	30%	Remove material down to frost line
0+450 - 0+475	80%	Ditch bottom ripped to grade/shaped slopes	0+800 - 0+825	30%	Remove material down to frost line
0+475 - 0+500	70%	Ripping frost	0+825 - 0+850	30%	Remove material down to frost line
0+500 - 0+525	70%	0.15 m - 0.25m of frost left to achieve ditch design grade	0+850 - 0+875	30%	Remove material down to frost line
0+525 - 0+550	70%	0.15 m - 0.25m of frost left to achieve ditch design grade	0+875 - 0+900	30%	Remove material down to frost line
0+550 - 0+575	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+900 - 0+925	30%	Remove material down to frost line
0+575 - 0+600	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+925 - 0+950	30%	Remove material down to frost line
0+600 - 0+625	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+950 - 0+975		
0+625 - 0+650	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+975 - 1+000		
0+650 - 0+675	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+000 - 1+025		
0+675 - 0+700	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+025 - 1+050		
0+700 - 0+725	30%	Remove material down to frost line	1+050 - 1+075		
0+725 - 0+750	30%	Remove material down to frost line	1+075 - 1+1081		
0+750 - 0+775	30%	Remove material down to frost line			

MANPOWER DEMOGRAPHICS			
COMPANY	POSITION	HOURS	COUNT
Nuna East	Robert Abbott	12.0	1
Nuna East	Gregory Gould	12.0	1
Nuna East	Dwain McDonald	12.0	1
Nuna East	Nell Courtenaille	12.0	1
Nuna East	Ken Humby	12.0	1
TOTAL		61	5

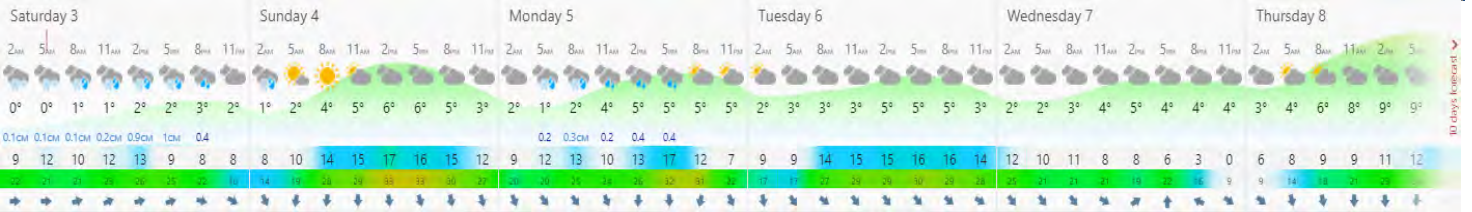
EQUIPMENT ONSITE				
Description	Unit	Op Hrs	Status	Comments
Cat 340 Excavator	320028	20.0	Up	Missing GPS Sensor cover
Cat 336 Excavator	320013	10.0	Up	
Water Truck	N1728	0.0	Up	
Cat 980 Loader	320005	0.0	Up	
Cat 06 Dozer	327807	0.0	Up	
Cat 08 Dozer	327306	0.0	Down	Emission fault codes
Cat 745 Rock Truck	320803	0.0	Up	
Cat Compactor	327901	0.0	Up	



Date: July 3, 2021

Working Hours: 6:00am to 6:00pm

Job No: CC006



PROJECT SAFETY	First Aid	Medical Aid	Property Damage	Equipment Damage	Environmental Release	Fire	Vehicle / Equipment Incident (Moving)	Project Total	Near Misses	Hazard ID Cards
Project to Date	0	0	0	0	0	0	0	0	0	0

DESCRIPTION OF INCIDENTS	Shift	Toolbox Topic
	Days	Head Protection
TOTAL REPORTABLE ACCIDENT FREQUENCY RATE	0	
LOST TIME ACCIDENT FREQUENCY RATE	0	

DAILY ACTIVITIES COMPLETED
Construction on the WRF perimeter ditch west side. Access into DH21-21. Shaping ramp for ROQ stock pile

PLANNED ACTIVITIES FOR NEXT DAY
Continue construction on access into DH21-21

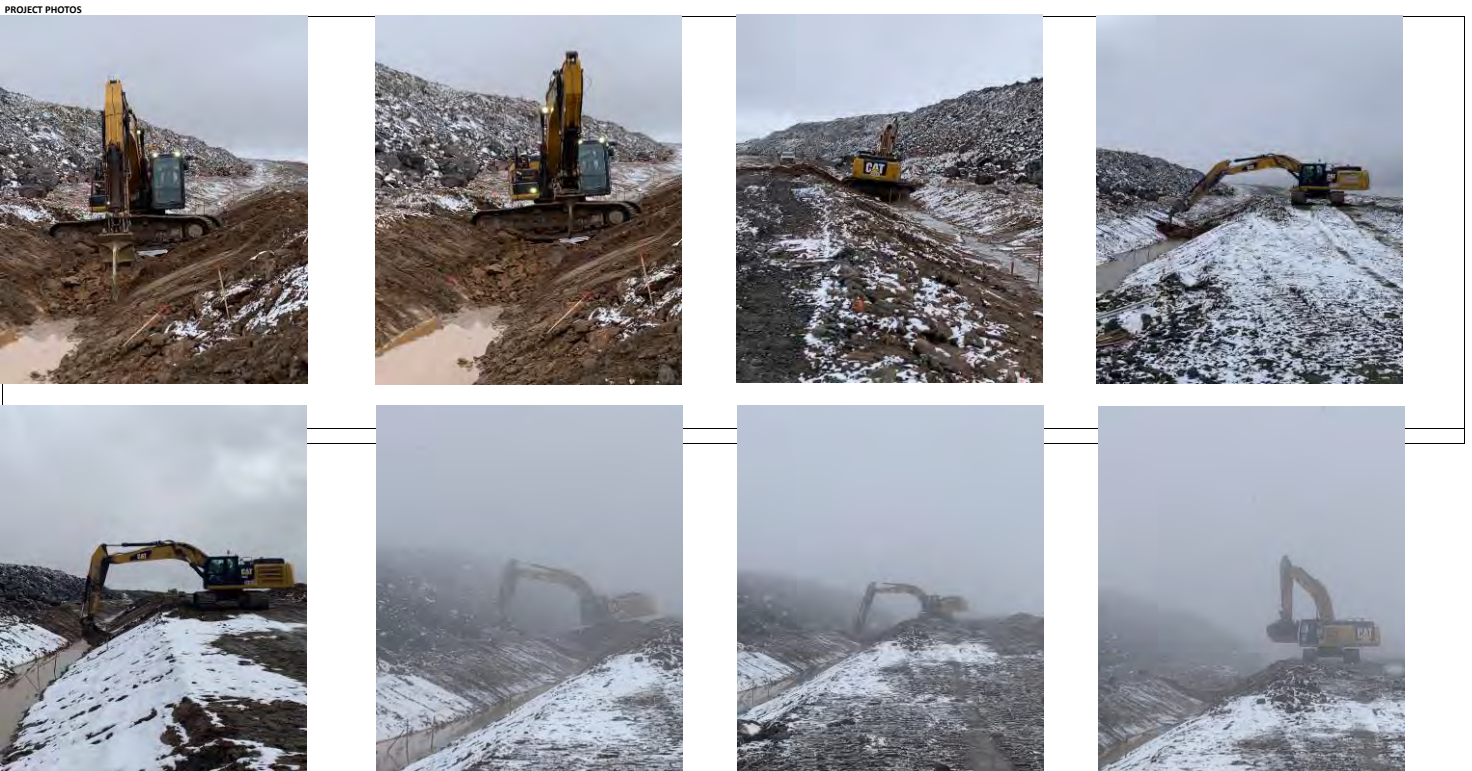
CONTRACTOR REMARKS
Waiting on permits for 105 pond. Considerable frost in WRF new ditch.

PROJECT QUANTITIES

Station Number	Ditch Status	Comments	Station Number	Ditch Status	Comments
0+438 - 0+450	80%	Ditch bottom ripped to grade/shaped slopes	0+775 - 0+800	30%	Remove material down to frost line
0+450 - 0+475	80%	Ditch bottom ripped to grade/shaped slopes	0+800 - 0+825	30%	Remove material down to frost line
0+475 - 0+500	80%	Ditch bottom ripped to grade/shaped slopes	0+825 - 0+850	30%	Remove material down to frost line
0+500 - 0+525	80%	Ditch bottom ripped to grade/shaped slopes	0+850 - 0+875	30%	Remove material down to frost line
0+525 - 0+550	80%	Ditch bottom ripped to grade/shaped slopes	0+875 - 0+900	30%	Remove material down to frost line
0+550 - 0+575	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+900 - 0+925	30%	Remove material down to frost line
0+575 - 0+600	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+925 - 0+950	30%	Remove material down to frost line
0+600 - 0+625	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+950 - 0+975		
0+625 - 0+650	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+975 - 1+000		
0+650 - 0+675	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+000 - 1+025		
0+675 - 0+700	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+025 - 1+050		
0+700 - 0+725	30%	Remove material down to frost line	1+050 - 1+075		
0+725 - 0+750	30%	Remove material down to frost line	1+075 - 1+1081		
0+750 - 0+775	30%	Remove material down to frost line			

COMPANY	POSITION	HOURS	COUNT
Nuna East	Robert Abbott	Foreman	12.0
Nuna East	Gregory Gould	Multi Operator	12.0
Nuna East	Dwain McDonald	Multi Operator	12.0
Nuna East	Nell Courtenaille	Rock Truck Driver	12.0
Nuna East	Ken Humby	Supervision	12.0
TOTAL		61	5

DESCRIPTION	Unit	Op Hrs	Status	Comments
Cat 340 Excavator	320208	20.0	Up	Missing GPS Sensor cover
Cat 336 Excavator	320513	10.0	Up	
Water Truck	N1278	0.0	Up	
Cat 980 Loader	320805	0.0	Up	
Cat 08 Dozer	327807	0.0	Up	
Cat 08 Dozer	327806	0.0	Down	Emission fault codes/Tormentor working on it
Cat 745 Rock Truck	320803	0.0	Up	
Cat Compactor	327901	0.0	Up	

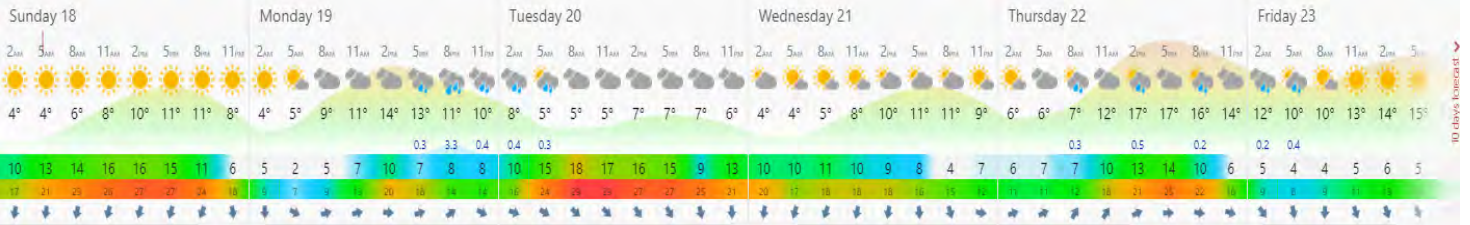


EQUIPMENT ONSITE				
Description	Unit	Op Hrs	Status	Comments
		05/16		
Cat 349 Excavator	326028	0.0	Up	
Cat 319 Excavator	326511	9.5	Up	Engine Fault Code, increased WPM 8/1/16
Walter Truck	91278	0.0	Up	
Cat 980 Loader	326006	0.0	Up	
Cat D6 Dozer	327807	1.0	Up	
Cat Compactor	327901	0.0	Up	
Cat D8 Dozer	327306	9.5	Up	Spread spoil material from ditch
	326808	1.0	Up	
Cat 745 Rock Truck	326803	1.0	Up	
Cat 745 Rock Truck	326810	1.0	Up	

Date: Saturday, July 17, 2021

Working Hours: 6:00am to 6:00pm

Job No: CC006



Project to Date	First Aid	Medical Aid	Property Damage	Equipment Damage	Environmental Release	Fire	Vehicle / Equipment Incident (Moving)	Project Total	Near Misses	Hazard ID Cards
0	0	0	0	0	0	0	0	0	0	0

DESCRIPTION OF INCIDENTS	
Shift	Toolbox Topic
Days	Covid Testing
TOTAL REPORTABLE ACCIDENT FREQUENCY RATE	
LOST TIME ACCIDENT FREQUENCY RATE	
0	0

DAILY ACTIVITIES COMPLETED

Julian and Vincent did their mine drive. Site tour on the mountain, all new guys. Worked on WRF ditch.

PLANNED ACTIVITIES FOR NEXT DAY

Survey will go lay out Viper Pad, keep working on WRF ditch. Start Viper pad and continue on ditch.

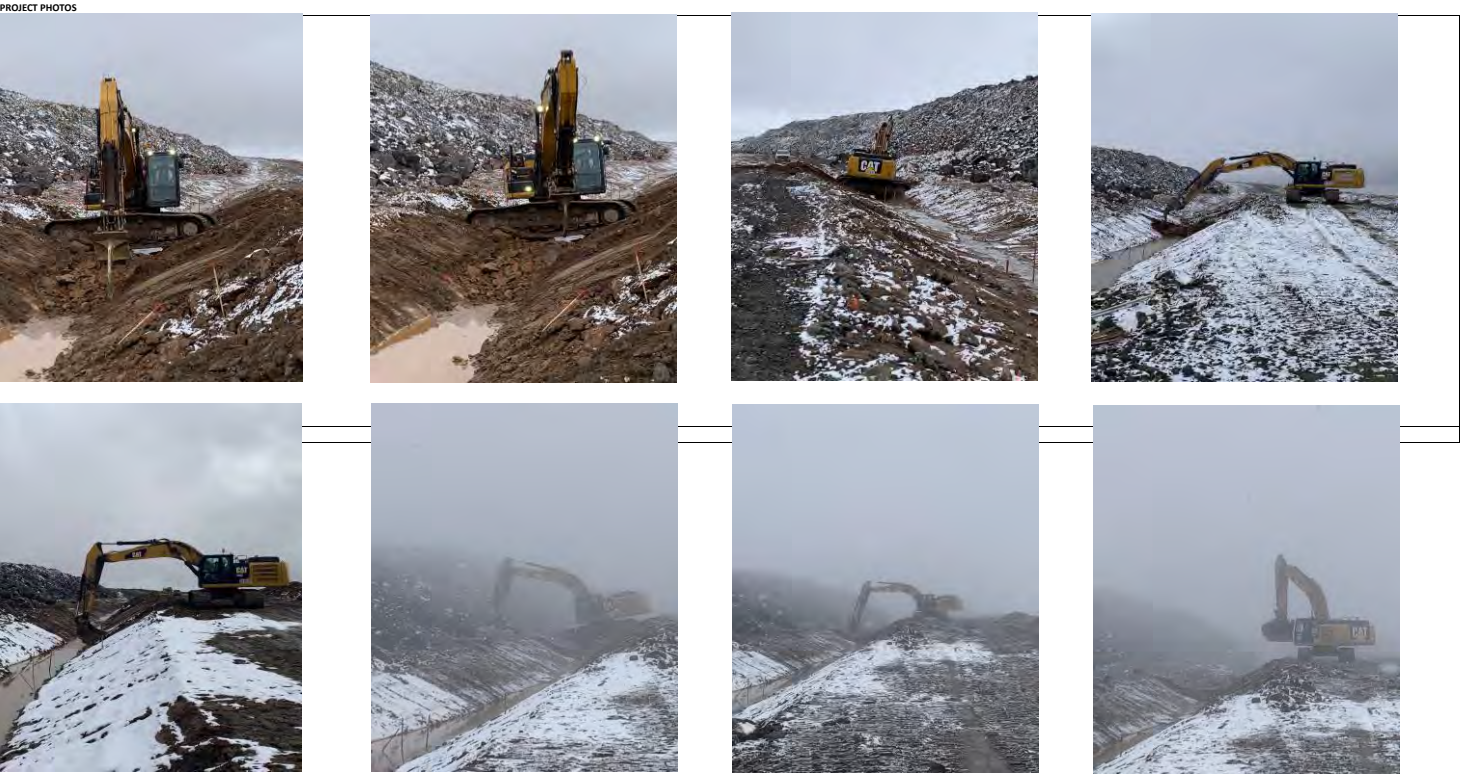
CONTRACTOR REMARKS

Waiting on permits for 105 pond. Considerable frost in WRF new ditch.

PROJECT QUANTITIES

Waste Rock Facility Expansion Perimeter Ditch					
Station Number	Ditch Status	Comments	Station Number	Ditch Status	Comments
0+438 - 0+450	80%	Ditch bottom ripped to grade/shaped slopes	0+775 - 0+800	30%	Remove material down to frost line
0+450 - 0+475	80%	Ditch bottom ripped to grade/shaped slopes	0+800 - 0+825	30%	Remove material down to frost line
0+475 - 0+500	80%	Ditch bottom ripped to grade/shaped slopes	0+825 - 0+850	30%	Remove material down to frost line
0+500 - 0+525	80%	Ditch bottom ripped to grade/shaped slopes	0+850 - 0+875	30%	Remove material down to frost line
0+525 - 0+550	80%	Ditch bottom ripped to grade/shaped slopes	0+875 - 0+900	30%	Remove material down to frost line
0+550 - 0+575	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+900 - 0+925	30%	Remove material down to frost line
0+575 - 0+600	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+925 - 0+950	30%	Remove material down to frost line
0+600 - 0+625	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+950 - 0+975		
0+625 - 0+650	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+975 - 1+000		
0+650 - 0+675	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+000 - 1+025		
0+675 - 0+700	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+025 - 1+050		
0+700 - 0+725	30%	Remove material down to frost line	1+050 - 1+075		
0+725 - 0+750	30%	Remove material down to frost line	1+075 - 1+1081		
0+750 - 0+775	30%	Remove material down to frost line			

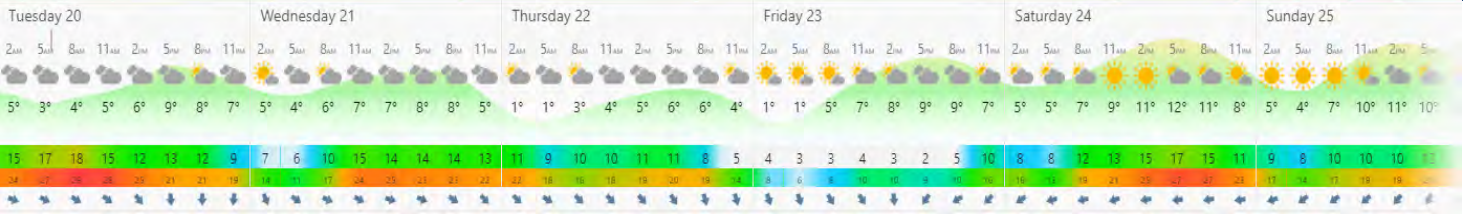
MANPOWER DEMOGRAPHICS				EQUIPMENT ONSITE			
COMPANY	POSITION	HOURS	COUNT	Description	Unit	Op Hrs	Status
Nuna East	Julian Sobolew	Foreman	12.0	Cat 340 Excavator	320208	0.0	Up
Nuna East	Pierre-Luc Barreault	Multi Operator	12.0	Cat 336 Excavator	320513	4.0	Up
Nuna East	Cordell Hodder	Multi Operator	12.0	Water Truck	N1728	0.0	Up
Nuna East	Aaron Weber	Multi Operator	12.0	Cat 980 Loader	320806	0.0	Up
Nuna East	Brian Brown	Truck Driver	12.0	Cat 06 Dozer	327807	0.0	Up
Nuna East	Jonathan Neel-Chisum	Truck Driver	12.0				
Nuna East	Vincent Hodder	Truck Driver	12.0				
Nuna East	Raven Lavigne-Roussseau	Skilled Labourer	12.0				
Nuna East	Carly Mickey	Skilled Labourer	12.0				
Nuna East	Harvey Blouin	Supervisor	12.0	Cat 08 Dozer	327806	4.0	Up
TOTAL		121	10	Cat 745 Rock Truck	320803	0.0	Up
				Cat Compactor	347901	0.0	Up



Date: Monday, July 19, 2021

Working Hours: 6:00am to 6:00am

Job No: CC006



PROJECT SAFETY	First Aid	Medical Aid	Property Damage	Equipment Damage	Environmental Release	Fire	Vehicle / Equipment Incident (Moving)	Project Total	Near Misses	Hazard ID Cards
Project to Date	0	0	0	0	0	0	0	0	0	0

DESCRIPTION OF INCIDENTS	Shift	Toolbox Topic
	Days	Bus Reminders
TOTAL REPORTABLE ACCIDENT FREQUENCY RATE	0	
LOST TIME ACCIDENT FREQUENCY RATE	0	

DAILY ACTIVITIES COMPLETED
Worked on WRF ditch. Get survey to do layout and asbuilt. Get survey to double check grades on Viper pad.

PLANNED ACTIVITIES FOR NEXT DAY
Keep working on WRF ditch. Start placing GEO Textile and rock in ditch. Start Viper pad when we get design for it.

CONTRACTOR REMARKS
Waiting on permits for 105 pond. Considerable frost in WRF new ditch.

PROJECT QUANTITIES

Waste Rock Facility Expansion Perimeter Ditch					
Station Number	Ditch Status	Comments	Station Number	Ditch Status	Comments
0+438 - 0+450	80%	Ditch bottom ripped to grade/shaped slopes	0+775 - 0+800	30%	Remove material down to frost line
0+450 - 0+475	80%	Ditch bottom ripped to grade/shaped slopes	0+800 - 0+825	30%	Remove material down to frost line
0+475 - 0+500	80%	Ditch bottom ripped to grade/shaped slopes	0+825 - 0+850	30%	Remove material down to frost line
0+500 - 0+525	80%	Ditch bottom ripped to grade/shaped slopes	0+850 - 0+875	30%	Remove material down to frost line
0+525 - 0+550	80%	Ditch bottom ripped to grade/shaped slopes	0+875 - 0+900	30%	Remove material down to frost line
0+550 - 0+575	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+900 - 0+925	30%	Remove material down to frost line
0+575 - 0+600	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+925 - 0+950	30%	Remove material down to frost line
0+600 - 0+625	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+950 - 0+975		
0+625 - 0+650	60%	0.5m - 0.6m of frost left to achieve ditch design grade	0+975 - 1+000		
0+650 - 0+675	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+000 - 1+025		
0+675 - 0+700	60%	0.5m - 0.6m of frost left to achieve ditch design grade	1+025 - 1+050		
0+700 - 0+725	30%	Remove material down to frost line	1+050 - 1+075		
0+725 - 0+750	30%	Remove material down to frost line	1+075 - 1+100		
0+750 - 0+775	30%	Remove material down to frost line			

MANPOWER DEMOGRAPHICS			
COMPANY	POSITION	HOURS	COUNT
Nuna East	Julian Sobolew	12.0	1
Nuna East	Pierre-Luc Barreault	12.0	1
Nuna East	Cordell Hodder	12.0	1
Nuna East	Aaron Weber	12.0	1
Nuna East	Brian Brown	12.0	1
Nuna East	Jonathan Noel Chisum	12.0	1
Nuna East	Vincent Hodder	12.0	1
Nuna East	Raven Lavigne-Boussard	12.0	1
Nuna East	Carly Mickey	12.0	1
Nuna East	Harvey Blouin	13.0	1
TOTAL		121	10

EQUIPMENT ONSITE				
Description	Unit	Op Hrs	Status	Comments
Cat 340 Excavator	320208	20.0	Up	Excavated WRF ditch.
Cat 338 Excavator	320513	10.0	Up	Excavated WRF ditch.
Cat 980 Loader	320806	2.5	Up	Paving Road
Cat 06 Dozer	321807	2.5	Up	Paving Road
Cat Compactor	327701	0.0	Up	
Cat 08 Dozer	327306	7.5	Up	Spread spoil material from ditch
Cat 745 Rock Truck	320803	2.5	Up	Paving Road
Cat 745 Rock Truck	325819	0.0	Up	



Job No: CC006



MANPOWER DEMOGRAPHICS			
COMPANY	POSITION	HOURS	COUNT
Numa East	Julian Sobkow	12.0	1
Numa East	Thomas Barnough	12.0	1
Numa East	Cordell Hodder	12.0	1
Numa East	Aaron Weber	12.0	1
Numa East	Brian Brown	12.0	1
Numa East	Jonathan Neal /Olson	12.0	1
Numa East	Vincent Hodder	12.0	1
Numa East	Kevin Lavigne-Rousseau	12.0	1
Numa East	Cody McKay	12.0	1
Numa East	Harvey Blouin	12.0	1
TOTAL		121	10

EQUIPMENT ONSITE				
Description	Unit	Op Hrs	Status	Comments
	D6/NS			
Cat 349 Excavator	326028	10.0	Up	Excavated WRF ditch
Cat 336 Excavator	326113	10.0	Up	Excavated WRF ditch
Cat 980 Loader	326026	0.0	Up	
Cat D6 Dozer	327307	8.0	Up	Spread spoil material from ditch
Cat Compactor	327901	0.0	Up	
Cat D8 Dozer	327306	2.0	Up	Spread spoil material from ditch
Cat 745 Rock Truck	325803	0.0	Up	
Cat 745 Rock Truck	325819	0.0	Up	

Date: Tuesday, July 20, 2021

Working Hours: 6:00am to 6:00pm

Job No: CC006



Project Safety	First Aid	Medical Aid	Property Damage	Equipment Damage	Environmental Release	Fire	Vehicle / Equipment Incident (Moving)	Project Total	Near Misses	Hazard ID Cards
Project to Date	0	0	0	0	0	0	0	0	0	0

Description of Incidents	
Shift	Toolbox Topic
Days	Looking Out For New Workers
TOTAL REPORTABLE ACCIDENT FREQUENCY RATE	
LOST TIME ACCIDENT FREQUENCY RATE	

Daily Activities Completed	
Worked on WRF ditch. Get survey to do layout and asbuilt. Start to lay out GEO..	

Planned Activities for Next Day	
Keep working on WRF ditch. Start placing GEO Textile and rock in ditch. Work on Viper pad.	

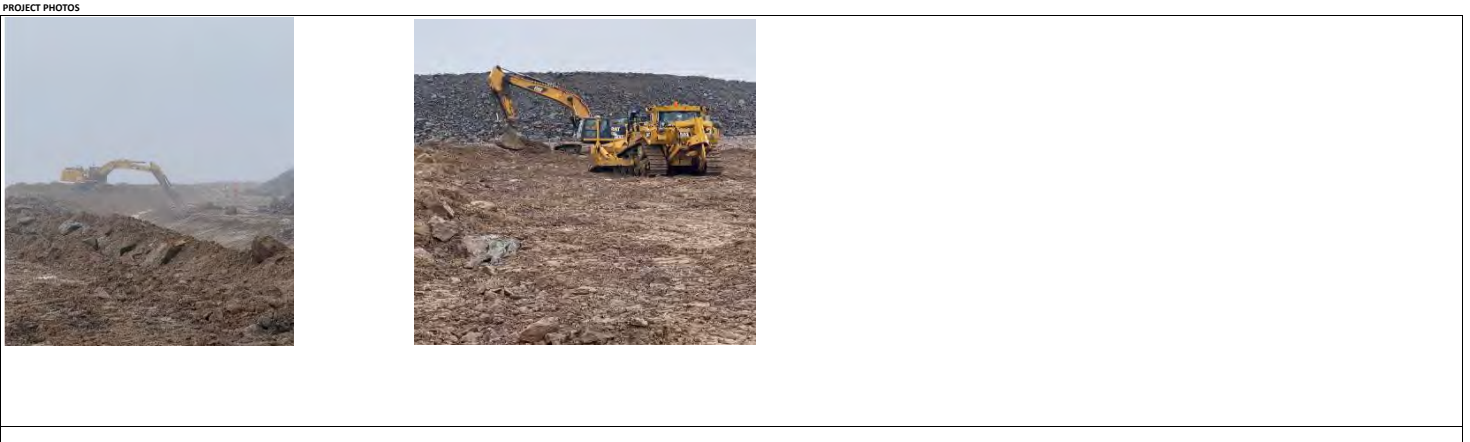
Contractor Remarks	
Waiting on permits for 105 pond. Considerable frost in WRF new ditch.	

Project Quantities	
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Waste Rock Facility Expansion Perimeter Ditch					
Station Number	Ditch Status	Comments	Station Number	Ditch Status	Comments
0+438 - 0+450	80%	Ditch bottom to grade/shaped slopes	0+775 - 0+800	80%	Ditch bottom to grade/shaped slopes
0+450 - 0+475	80%	Ditch bottom to grade/shaped slopes	0+800 - 0+825	80%	Ditch bottom to grade/shaped slopes
0+475 - 0+500	80%	Ditch bottom to grade/shaped slopes	0+825 - 0+850	80%	Ditch bottom to grade/shaped slopes
0+500 - 0+525	80%	Ditch bottom to grade/shaped slopes	0+850 - 0+875	80%	Ditch bottom to grade/shaped slopes
0+525 - 0+550	80%	Ditch bottom to grade/shaped slopes	0+875 - 0+900	80%	Ditch bottom to grade/shaped slopes
0+550 - 0+575	80%	Ditch bottom to grade/shaped slopes	0+900 - 0+925	80%	Ditch bottom to grade/shaped slopes
0+575 - 0+600	80%	Ditch bottom to grade/shaped slopes	0+925 - 0+950	80%	Ditch bottom to grade/shaped slopes
0+600 - 0+625	80%	Ditch bottom to grade/shaped slopes	0+950 - 0+975	80%	Ditch bottom to grade/shaped slopes
0+625 - 0+650	80%	Ditch bottom to grade/shaped slopes	0+975 - 1+000	80%	Ditch bottom to grade/shaped slopes
0+650 - 0+675	80%	Ditch bottom to grade/shaped slopes	1+000 - 1+025	30%	Dug to frozen bottom
0+675 - 0+700	80%	Ditch bottom to grade/shaped slopes	1+025 - 1+050	30%	Dug to frozen bottom
0+700 - 0+725	80%	Ditch bottom to grade/shaped slopes	1+050 - 1+075	30%	Dug to frozen bottom
0+725 - 0+750	80%	Ditch bottom to grade/shaped slopes	1+075 - 1+081	30%	Dug to frozen bottom
0+750 - 0+775	80%	Ditch bottom to grade/shaped slopes			

Manpower Demographics			
Company	Position	Hours	Count
Nuna East	Nathan Sobleine	Foreman	12.0
Nuna East	Pierre-Luc Barnault	Multi Operator	12.0
Nuna East	Cordell Hodder	Multi Operator	12.0
Nuna East	Aaron Weber	Multi Operator	12.0
Nuna East	Brian Brown	Truck Driver	12.0
Nuna East	Jonathan Noel Chisum	Truck Driver	12.0
Nuna East	Vincent Hodder	Truck Driver	12.0
Nuna East	Kevin Lavigne-Boussard	Skilled Labourer	12.0
Nuna East	Carly Mickey	Skilled Labourer	12.0
Nuna East	Harvey Blouin	Supervisor	13.0
TOTAL		121	10

Equipment Onsite				
Description	Unit	Op Hrs	Status	Comments
Cat 340 Excavator	320208	20.0	Up	Excavated WRF ditch.
Cat 336 Excavator	320513	10.0	Up	Excavated WRF ditch.
Cat 980 Loader	320805	0.0	Up	
Cat 06 Dozer	327107	8.0	Up	Spread spoil material from ditch
Cat Compactor	327701	0.0	Up	
Cat 08 Dozer	327306	2.0	Up	Spread spoil material from ditch
Cat 745 Rock Truck	320803	0.0	Up	
Cat 745 Rock Truck	325819	0.0	Up	





PROJECT SAFETY	First Aid	Medical Aid	Property Damage	Equipment Damage	Environmental Release	Fire	Vehicle / Equipment Incident (Moving)	Project Total	Near Misses	Hazard ID Cards
Project to Date	0	0	0	0	0	0	0	0	0	0

DESCRIPTION OF INCIDENTS	
Shift	Toolbox Topic
Days	When is a JHA required
TOTAL REPORTABLE ACCIDENT FREQUENCY RATE	
LOST TIME ACCIDENT FREQUENCY RATE	

DAILY ACTIVITIES COMPLETED	
Worked on WRF ditch. Survey laid out Viper Pad, Started to excavate subgrade.	

PLANNED ACTIVITIES FOR NEXT DAY	
Keep working on WRF ditch. Start placing GEO Textile and rock in ditch. Start hauling rock to cover the GEO. Work on Viper pad.	

CONTRACTOR REMARKS	
Waiting on permits for 105 pond. Considerable frost in WRF new ditch.	

PROJECT QUANTITIES	
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Waste Rock Facility Expansion Perimeter Ditch					
Station Number	Ditch Status	Comments	Station Number	Ditch Status	Comments
0+438 - 0+450	80%	Ditch bottom to grade/shaped slopes	0+775 - 0+800	80%	Ditch bottom to grade/shaped slopes
0+450 - 0+475	80%	Ditch bottom to grade/shaped slopes	0+800 - 0+825	80%	Ditch bottom to grade/shaped slopes
0+475 - 0+500	80%	Ditch bottom to grade/shaped slopes	0+825 - 0+850	80%	Ditch bottom to grade/shaped slopes
0+500 - 0+525	80%	Ditch bottom to grade/shaped slopes	0+850 - 0+875	80%	Ditch bottom to grade/shaped slopes
0+525 - 0+550	80%	Ditch bottom to grade/shaped slopes	0+875 - 0+900	80%	Ditch bottom to grade/shaped slopes
0+550 - 0+575	80%	Ditch bottom to grade/shaped slopes	0+900 - 0+925	80%	Ditch bottom to grade/shaped slopes
0+575 - 0+600	80%	Ditch bottom to grade/shaped slopes	0+925 - 0+950	80%	Ditch bottom to grade/shaped slopes
0+600 - 0+625	80%	Ditch bottom to grade/shaped slopes	0+950 - 0+975	80%	Ditch bottom to grade/shaped slopes
0+625 - 0+650	80%	Ditch bottom to grade/shaped slopes	0+975 - 1+000	80%	Ditch bottom to grade/shaped slopes
0+650 - 0+675	80%	Ditch bottom to grade/shaped slopes	1+000 - 1+025	30%	Dug to frozen bottom
0+675 - 0+700	80%	Ditch bottom to grade/shaped slopes	1+025 - 1+050	30%	Dug to frozen bottom
0+700 - 0+725	80%	Ditch bottom to grade/shaped slopes	1+050 - 1+075	30%	Dug to frozen bottom
0+725 - 0+750	80%	Ditch bottom to grade/shaped slopes	1+075 - 1+081	30%	Dug to frozen bottom
0+750 - 0+775	80%	Ditch bottom to grade/shaped slopes			
		VIPER PAD			
		Started on subgrade Excavation			

MANPOWER DEMOGRAPHICS			
COMPANY	POSITION	HOURS	COUNT
Nuna East	Julian Sobkow	12.0	1
Nuna East	Pierre Luc Barrault	0.0	0
Nuna East	Carroll Haggler	12.0	1
Nuna East	Aaron Weber	12.0	1
Nuna East	Brian Brown	12.0	1
Nuna East	Jonathan Noel-Chisson	12.0	1
Nuna East	Ginochet Haddad	12.0	1
Nuna East	Kevon Lavigne-Bousquet	12.0	1
Nuna East	Cody McKay	12.0	1
Nuna East	Harvey Blouin	12.0	1
TOTAL		108	9

EQUIPMENT ONSITE			
Description	Unit	Op Hrs	Status
Cat 349 Excavator	326028	6.0	Up
Cat 336 Excavator	326013	11.0	Up
Cat 980 Loader	326806	4.0	Up
Cat D6 Dozer	327307	8.5	Up
Cat Compactor	327901	0.0	Up
Cat D8 Dozer	327306	2.0	Up
Cat 745 Rock Truck	325803	0.0	Up
Cat 745 Rock Truck	325819	0.0	Up

PROJECT PHOTOS	

