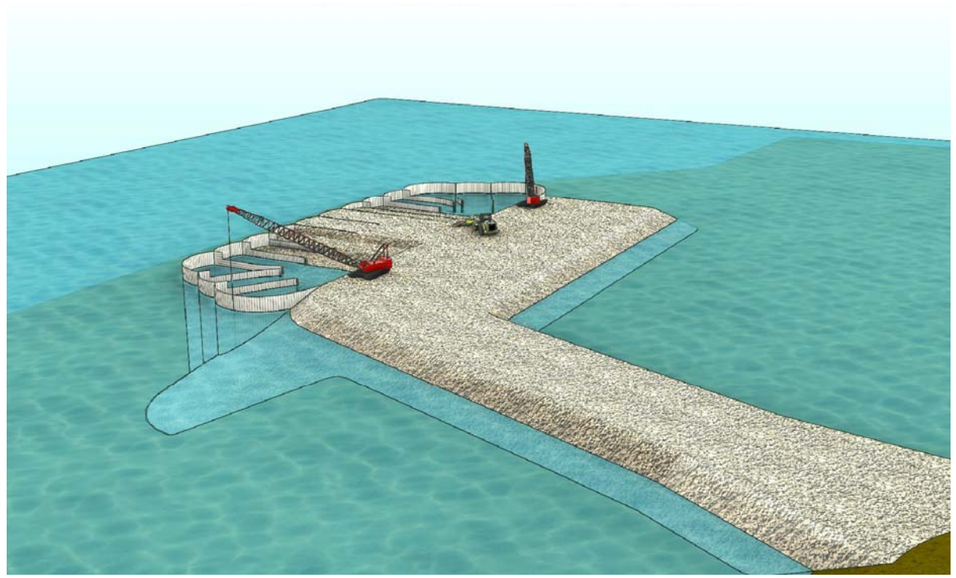
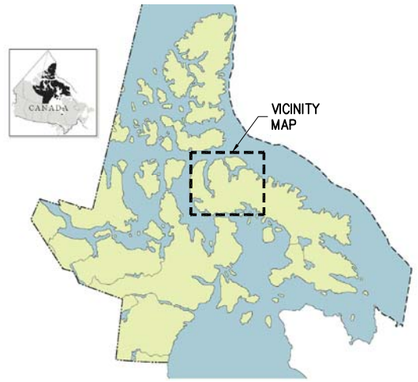
BAFFINLAND IRON MINES CORPORATION
MILNE INLET ORE DOCK
BAFFIN ISLAND, NUNAVUT





NUNAVUT MAP

VICINITY MAP

TIDAL DATUM CHART DATUM (GEODETIC DATUM +1.2m) FROM STANDARD H349000-S003120 – SITE CONDITIONS	
HAT	+2.4m
HHWLT	+2.3m
HHWMT	+2.0m
MLW	+1.2m
LLWMT	+0.5m
LLWLT	0.0m

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PND ENGINEERS CANADA INC.

RUSKIN CONSTRUCTION LTD.

Baffinland Iron Mines Corporation

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REGISTERED PROFESSIONAL ENGINEER G.R. WATTERS LICENSEE NWT/NU

5-30-14

REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: MILNE INLET ORE DOCK

TITLE: TITLE SHEET AND TIDAL DATA

DESIGNED BY:	CK	PROJECT NO:	144016.01	SHEET NO: G1.1
DRAWN BY:	DRH	DATE:	MAY 2014	
CHECKED BY:	GW	SCALE:	NOTED	

5/30/14
Drawings\2014\144016.01 - Milne Inlet Ore Dock\Design Drawings\Issued For Construction\144016.01-G1.1.dwg

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SECTION	DWG. No.	TITLE
		GENERAL
G1	1	TITLE SHEET AND TIDAL DATA
G1	2	SHEET INDEX
G1	3	BASIS OF DESIGN
G1	4	SITE PLAN AND SURVEY CONTROL
G1	5	ORE DOCK SURVEY CONTROL
G2	1	GEOTECHNICAL EXPLORATION – SITE PLAN
G2	2	GEOTECHNICAL EXPLORATION – SUBSURFACE PROFILE BASELINE 'A'
G2	3	GEOTECHNICAL EXPLORATION – SUBSURFACE PROFILE BASELINE 'A'
		CIVIL
C1	1	CIVIL – GENERAL PLAN
C2	1	GRADING – FILL TO +3M
C2	2	GRADING – PLAN
C2	3	GRADING – DREDGING PLAN
C2	4	GRADING – SHORE PROTECTION PLAN
C2	5	GRADING – SECTIONS – 1
C2	6	GRADING – SECTIONS – 2
C2	7	GRADING – SECTIONS – 3
C2	8	GRADING – SECTIONS – 4
C2	9	GRADING – SECTIONS – 5
C2	10	GRADING – POINTS TABLE

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S1	2	PIPE PILE SCHEDULE – 1 of 2
S1	3	PIPE PILE SCHEDULE – 2 of 2
S1	4	PILE DETAILS
S2	1	OCSP – SHEETPILE PLAN
S2	2	OCSP – FACE ELEVATION
S2	3	OCSP – SECTION
S2	4	OCSP – SHEETPILE SCHEDULE AND DETAILS
S2	5	OCSP – SHEETPILE DETAILS
S2	6	OCSP – FACE BEAM PLAN
S2	7	OCSP – FACE BEAM AND BOLLARD DETAILS
S2	8	OCSP – CAPSTAN AND WHEEL GUARD DETAILS
S2	9	OCSP – LADDER DETAILS
S2	10	OCSP – FENDER DETAILS
S3	1	SHIPLOADER FOUNDATIONS – LAYOUT
S3	2	SHIPLOADER FOUNDATIONS – SHIPLOADER SECTIONS
S3	3	SHIPLOADER FOUNDATIONS – SHIPLOADER PLAN AND DETAILS
S3	4	SHIPLOADER FOUNDATIONS – SHIPLOADER SECTIONS
S3	5	SHIPLOADER FOUNDATIONS – DISTRIBUTION TOWER PLANS
S3	6	SHIPLOADER FOUNDATIONS – DISTRIBUTION TOWER SECTIONS
S4	1	CONVEYOR FOUNDATIONS – PLAN AND ELEVATION
S4	2	CONVEYOR FOUNDATIONS – FOUNDATION L DETAILS
S4	3	CONVEYOR FOUNDATIONS – FOUNDATION K DETAILS
S4	4	CONVEYOR FOUNDATIONS – FOUNDATION F DETAILS
S4	5	CONVEYOR FOUNDATIONS – FOUNDATION G–H DETAILS
S4	6	CONVEYOR FOUNDATIONS – FOUNDATION E DETAILS
S5	1	UPLANDS CONVEYOR FOUNDATIONS – PLAN AND ELEVATION
S5	2	UPLANDS CONVEYOR FOUNDATIONS – TURNING FOUNDATION DETAILS
S5	3	UPLANDS CONVEYOR FOUNDATIONS – TENSIONER FOUNDATION DETAILS
S5	4	UPLANDS CONVEYOR FOUNDATIONS – FOUNDATION D DETAILS
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SECTION	DWG. No.	TITLE
		STRUCTURAL (CONT.)
S6	1	DRIVE HOUSE FOUNDATION – PLAN
S6	2	DRIVE HOUSE FOUNDATION – SECTIONS
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S7	4	ELECTRICAL HOUSE FOUNDATION – DETAILS

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ISSUED FOR CONSTRUCTION

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RUSKIN CONSTRUCTION LTD.

Baffinland Iron Mines Corporation

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5-30-14

REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: **MILNE INLET ORE DOCK**

TITLE: **SHEET INDEX**

DESIGNED BY:	CK	PROJECT NO:	144016.01	SHEET NO: **G1.2**
DRAWN BY:	DRH	DATE:	MAY 2014	
CHECKED BY:	GW	SCALE:	NOTED	

BASIS OF DESIGN

DESIGN IS BASED ON THE DESIGN CRITERIA, LOADS, AND DIMENSIONS IN THE DOCUMENTS LISTED BELOW.

	DOCUMENT NUMBER	NAME	REVISION	DATE
1	H349000-220-12-122-001	MILNE ORE DOCK DESIGN CRITERIA	1	1/31/2014
2	E349000-PM002-35-035-0001	TWO TOWER SHIPLOADER - SHIPLOADER/FOUNDATION LOADS SHIPLOADER/STRUCTURAL SUPPORTS OUTLINE - ANCHOR DETAILS	E	11/13/2013
3	E349000-PM002-35-035-0002-001	TWO TOWER SHIPLOADER - STRUCTURAL SUPPORTS LOADING DIAGRAM/RECLAIM CONVEYOR	6	1/13/2014
4	E349000-PM002-35-035-0002-002	TWO TOWER SHIPLOADER - STRUCTURAL SUPPORTS LOADING DIAGRAM/RECLAIM CONVEYOR	6	1/13/2014
5	E349000-PM002-35-035-0002-003	TWO TOWER SHIPLOADER - STRUCTURAL SUPPORTS LOADING DIAGRAM/RECLAIM CONVEYOR	6	1/13/2014
6	E349000-PM002-35-035-0002-004	TWO TOWER SHIPLOADER - STRUCTURAL SUPPORTS LOADING DIAGRAM/RECLAIM CONVEYOR	6	1/13/2014
7	E349000-PM002-35-035-0002-005	TWO TOWER SHIPLOADER - STRUCTURAL SUPPORTS LOADING DIAGRAM/RECLAIM CONVEYOR	6	1/13/2014
8	E349000-PM002-35-035-0003	SHIP LOADER SL/FOUNDATION LOADS SHIPLOADER/LOADING DIAGRAMS (STATIC AND DYNAMIC)	3	8/20/2013
9	E349000-PM002-50-035-0001	TWO TOWER SHIPLOADER - PLANT EQUIPMENT DETAILED/WALKWAY	E	12/11/2013
10	E349000-PM002-50-035-0002	TWO TOWER SHIPLOADER - PLANT EQUIPMENT DETAILED/FOUNDATION LAYOUT FOR SHIPLOADER 1	C	10/10/2013
11	E349000-PM002-50-035-0003	TWO TOWER SHIPLOADER - PLANT EQUIPMENT DETAILED/FOUNDATION LAYOUT FOR SHIPLOADER 2	C	10/10/2013
12	E349000-PM002-50-035-0004	TWO TOWER SHIPLOADER - PLANT EQUIPMENT DETAILED/FOUNDATION LAYOUT FOR MIDDLE TOWER	C	10/11/2013
13	E349000-PM002-50-042-0001-001	TWO TOWER SHIPLOADER - SHIPLOADER/GENERAL ARRANGEMENT	6	3/5/2014
14	E349000-PM002-50-042-0001-002	TWO TOWER SHIPLOADER - SHIPLOADER/GENERAL ARRANGEMENT	6	3/5/2014
15	E349000-PM002-50-042-0002-001	TWO TOWER SHIPLOADER - GENERAL ARRANGEMENT RECLAIM CONVEYOR	7	2/21/2014
16	E349000-PM002-50-042-0002-002	TWO TOWER SHIPLOADER - GENERAL ARRANGEMENT RECLAIM CONVEYOR	7	2/21/2014
17	E349000-PM002-50-042-0002-003	TWO TOWER SHIPLOADER - GENERAL ARRANGEMENT RECLAIM CONVEYOR	7	2/21/2014
18	E349000-PM002-50-042-0002-004	TWO TOWER SHIPLOADER - GENERAL ARRANGEMENT RECLAIM CONVEYOR	7	2/21/2014
19	E349000-PM002-50-042-0002-005	TWO TOWER SHIPLOADER - GENERAL ARRANGEMENT RECLAIM CONVEYOR	7	2/21/2014
20	E349000-PM002-35-035-0004-117667.02.02.202	LOADING DIAGRAMS - INDIVIDUAL LOADS	1	9/4/2013

NOTES:
1. PROJECT DRAWINGS ARE BASED UPON INFORMATION PROVIDED IN THE ABOVE LISTED DRAWINGS AND DOCUMENTS.
2. DESIGN CRITERIA AND BASIS OF DESIGN OUTLINED AND PROVIDED BY HATCH LTD.
3. ALL ELEVATIONS IN THIS DRAWING SET ARE CHART DATUM UNLESS OTHERWISE NOTED.
4. TOP OF STEEL ELEVATIONS NOTED IN THE PROJECT DRAWINGS ARE BASED UPON ELEVATIONS OUTLINED IN THE DRAWINGS NOTED ABOVE FROM THE MANUFACTURER.

5/30/14
Drawings\2014\144016.01 - Milne Inlet Ore Dock\Design Drawings\Issued For Construction\144016.01-G1.3.dwg

PND ENGINEERS CANADA INC.

RUSKIN CONSTRUCTION LTD.

Baffinland Iron Mines Corporation

REGISTERED PROFESSIONAL ENGINEER
G.R. WATTERS
LICENSEE
NWT/NU
5-30-14

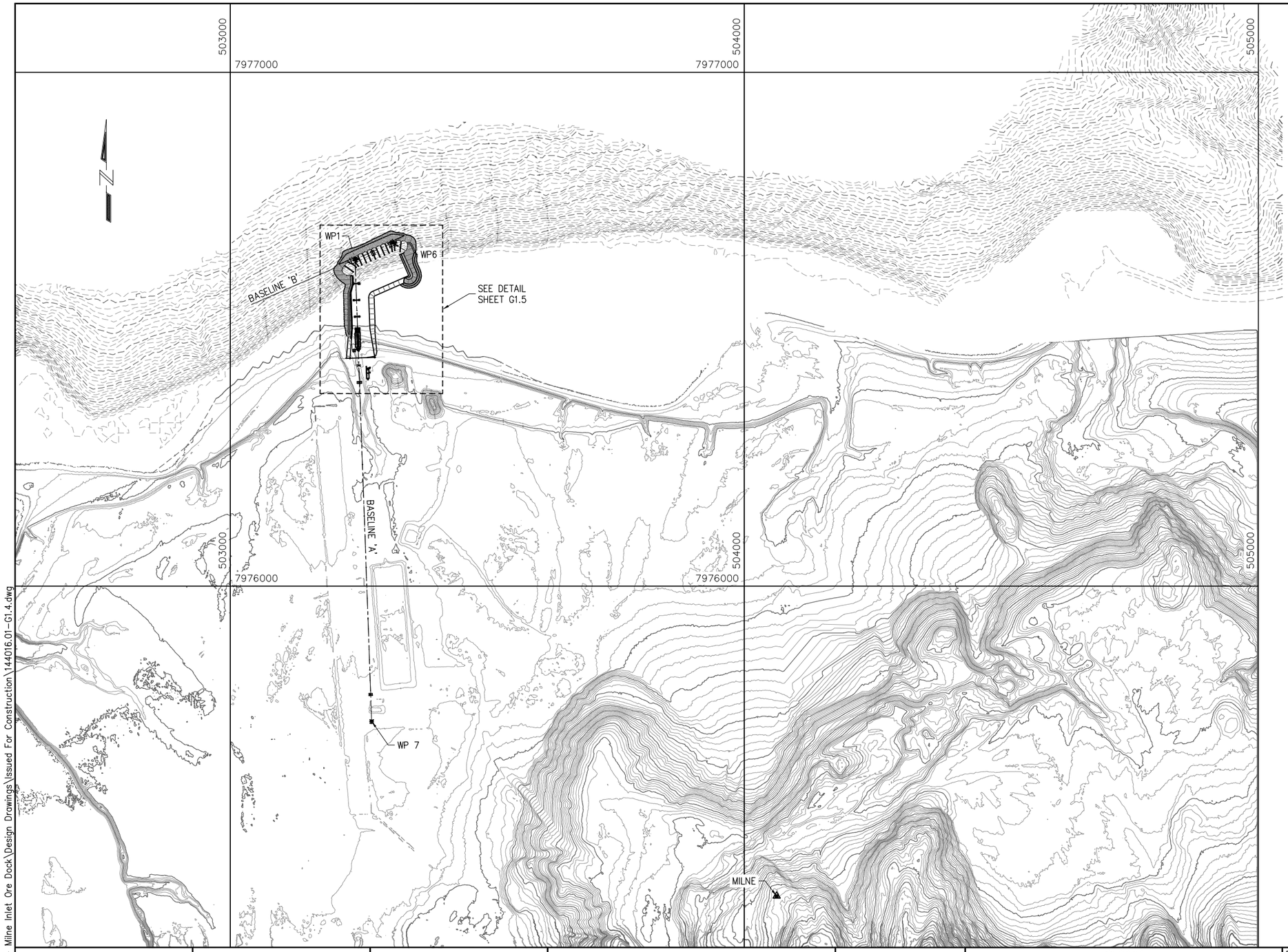
ISSUED FOR CONSTRUCTION

REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: **MILNE INLET ORE DOCK**

TITLE: **BASIS OF DESIGN**

DESIGNED BY:	CK	PROJECT NO:	144016.01	SHEET NO: G1.3
DRAWN BY:	DRH	DATE:	MAY 2014	
CHECKED BY:	GW	SCALE:	NOTED	



WORK POINT TABLE

I.D.	NORTHING	EASTING	STATION
WP1	7976636.267	503242.557	1000+000 BASELINE 'A' 2000+000 BASELINE 'B'
WP6	7976668.379	503315.829	2080+000 BASELINE 'B'
WP7	7975736.852	503274.995	100+000 BASELINE 'A'

PROJECT CONTROL MONUMENTS

NO.	I.D.	NORTHING	EASTING	ELEVATION CD	ELEVATION CGVD28	DESCRIPTION
1	MILNE	7975396.931	504062.872	82.183	80.983	NAIL
2	M700	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	IRON BAR

NOTES:

1. POINT 'MILNE' BY TERRASOND, 2008.
2. POINT 'M700' UNKNOWN, APPROXIMATELY 1 METRE NE OF 'MILNE'.
3. COORDINATES SHOWN IN UTM (NAD83), ZONE 17, IN METRES.
4. CHART DATUM IS 1.2m BELOW CGVD28 (0.0m CD = −1.2m GD) PER HATCH 'MILNE ORE DOCK DESIGN CRITERIA' DOCUMENT H349000−2220−12−122−0001, REV 1 AND 'SITE CONDITIONS' DOCUMENT H349000−5003120, REV 3 .
5. TOPOGRAPHY (0.0m CD AND ABOVE) AND BATHYMETRY (−1.0m CD AND BELOW) PROVIDED BY BIM.
6. PROJECT CONTROL MONUMENTS AND VERTICAL CONTROL CONVERSIONS ARE PROVIDED BY OTHERS. THIS DRAWING DOES NOT VERIFY OR IMPLY ACCURACY OF ANY PROJECT CONTROL. PND RECOMMENDS THAT A LICENCED SURVEYOR CHECK ALL CONTROL AND INSTALL ADDITIONAL MONUMENTATION ADJACENT TO THE PROJECT SITE.
7. PLAN SHOWN POST−CONSTRUCTION.

SITE PLAN

0 50 100 150
METRES

ISSUED FOR CONSTRUCTION

PND ENGINEERS CANADA INC.

RUSKIN CONSTRUCTION LTD.

Baffinland Iron Mines Corporation

5-30-14

REVISIONS

REV	DATE	DESCRIPTION

PROJECT:

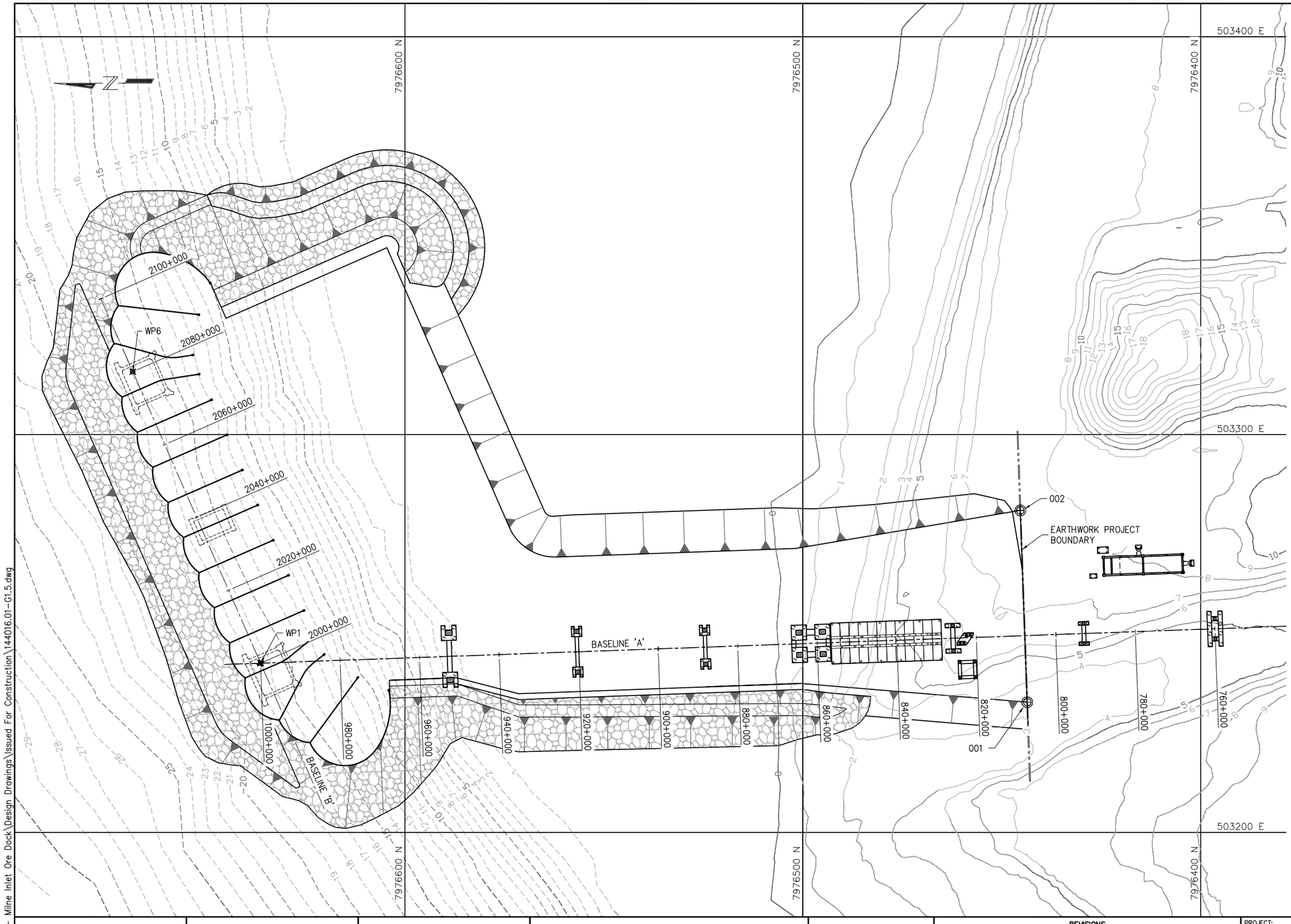
MILNE INLET ORE DOCK

TITLE:

SITE PLAN AND SURVEY CONTROL

DESIGNED BY:	CK	PROJECT NO:	144016.01	SHEET NO: G1.4
DRAWN BY:	DRH	DATE:	MAY 2014	
CHECKED BY:	GW	SCALE:	NOTED	

5/30/14 Drawings\2014\144016.01 - Milne Inlet Ore Dock\Design Drawings\Issued For Construction\144016.01-G1.4.dwg



WORK POINT TABLE

I.D.	NORTHING	EASTING	STATION
WP1	7976636.267	503242.557	1000+000 BASELINE 'A' 2000+000 BASELINE 'B'
WP6	7976668.379	503315.829	2080+000 BASELINE 'B'
WP7	7975736.852	503274.995	100+000 BASELINE 'A'
001	7976443.584	503232.752	807+796
002	7976445.321	503280.960	807+796

NOTES:

1. COORDINATES SHOWN IN UTM (NAD83), ZONE 17, IN METRES.
2. CHART DATUM IS 1.2m BELOW CGVD28 (0.0m CD = −1.2m GD) PER HATCH "MILNE ORE DOCK DESIGN CRITERIA" DOCUMENT H349000−2220−12−122−0001, REV 1 AND "SITE CONDITIONS" DOCUMENT H349000−5003120, REV 3 .
3. TOPOGRAPHY (0.0m CD AND ABOVE) AND BATHYMETRY (−1.0m CD AND BELOW) PROVIDED BY BIM.
4. PROJECT CONTROL MONUMENTS AND VERTICAL CONTROL CONVERSIONS ARE PROVIDED BY OTHERS. THIS DRAWING DOES NOT VERIFY OR IMPLY ACCURACY OF ANY PROJECT CONTROL. PND RECOMMENDS THAT A LICENCED SURVEYOR CHECK ALL CONTROL AND INSTALL ADDITIONAL MONUMENTATION ADJACENT TO THE PROJECT SITE.
5. PLAN SHOWN POST−CONSTRUCTION.

SITE PLAN

0 5 10 15 20
METRES

ISSUED FOR CONSTRUCTION

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RUSKIN CONSTRUCTION LTD.

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ENGINEERED PROFESSIONAL SERVICES — A.R. WATTERS — LICENSEE — NWT/NU

5-30-14

REVISIONS

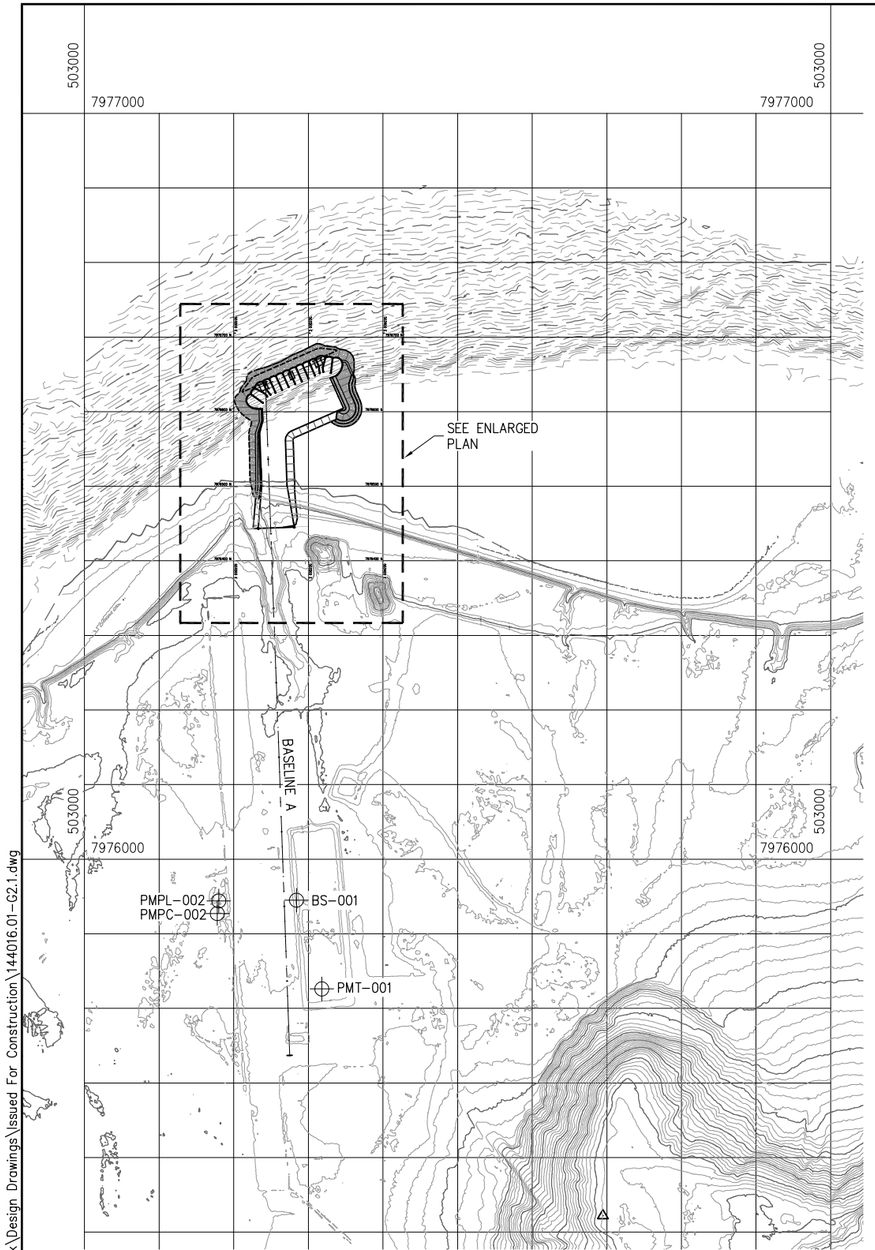
REV	DATE	DESCRIPTION

PROJECT: **MILNE INLET ORE DOCK**

TITLE: **ORE DOCK SURVEY CONTROL**

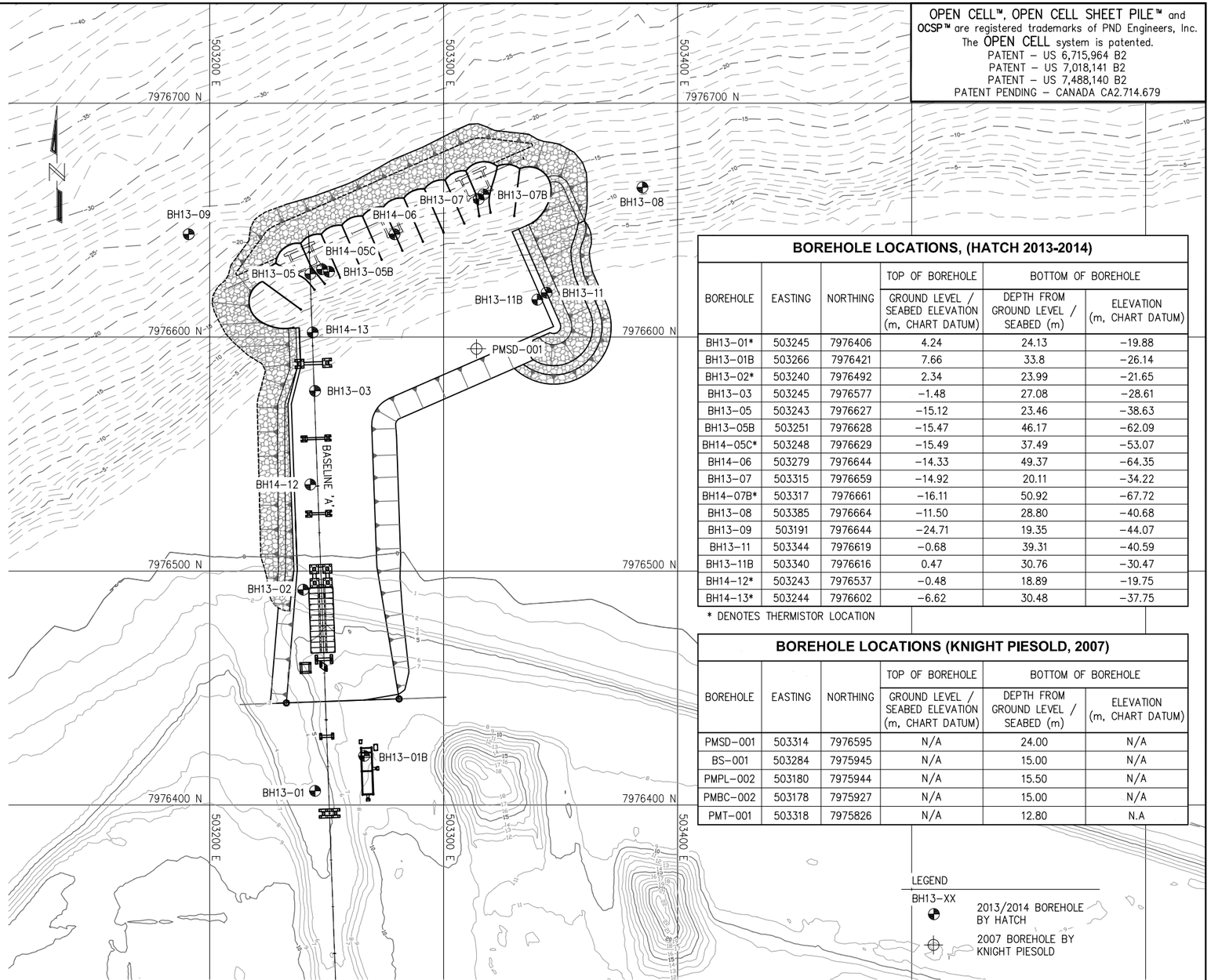
DESIGNED BY:	CK	PROJECT NO:	144016.01	SHEET NO:	G1.5
DRAWN BY:	DRH	DATE:	MAY 2014		
CHECKED BY:	GW	SCALE:	NOTED		

5/30/14 Drawings\2014\144016.01 – Milne Inlet Ore Dock\Design Drawings\Issued For Construction\144016.01−G1.5.dwg



PLAN

0 50 100 150
METRES



PLAN

0 10 20 30 40
METRES

BOREHOLE LOCATIONS, (HATCH 2013-2014)

BOREHOLE	EASTING	NORTHING	TOP OF BOREHOLE	BOTTOM OF BOREHOLE	
			GROUND LEVEL / SEABED ELEVATION (m, CHART DATUM)	DEPTH FROM GROUND LEVEL / SEABED (m)	ELEVATION (m, CHART DATUM)
BH13–01*	503245	7976406	4.24	24.13	–19.88
BH13–01B	503266	7976421	7.66	33.8	–26.14
BH13–02*	503240	7976492	2.34	23.99	–21.65
BH13–03	503245	7976577	–1.48	27.08	–28.61
BH13–05	503243	7976627	–15.12	23.46	–38.63
BH13–05B	503251	7976628	–15.47	46.17	–62.09
BH14–05C*	503248	7976629	–15.49	37.49	–53.07
BH14–06	503279	7976644	–14.33	49.37	–64.35
BH13–07	503315	7976659	–14.92	20.11	–34.22
BH14–07B*	503317	7976661	–16.11	50.92	–67.72
BH13–08	503385	7976664	–11.50	28.80	–40.68
BH13–09	503191	7976644	–24.71	19.35	–44.07
BH13–11	503344	7976619	–0.68	39.31	–40.59
BH13–11B	503340	7976616	0.47	30.76	–30.47
BH14–12*	503243	7976537	–0.48	18.89	–19.75
BH14–13*	503244	7976602	–6.62	30.48	–37.75

* DENOTES THERMISTOR LOCATION

BOREHOLE LOCATIONS (KNIGHT PIESOLD, 2007)

BOREHOLE	EASTING	NORTHING	TOP OF BOREHOLE	BOTTOM OF BOREHOLE	
			GROUND LEVEL / SEABED ELEVATION (m, CHART DATUM)	DEPTH FROM GROUND LEVEL / SEABED (m)	ELEVATION (m, CHART DATUM)
PMSD–001	503314	7976595	N/A	24.00	N/A
BS–001	503284	7975945	N/A	15.00	N/A
PMPL–002	503180	7975944	N/A	15.50	N/A
PMBC–002	503178	7975927	N/A	15.00	N/A
PMT–001	503318	7975826	N/A	12.80	N.A

LEGEND

BH13–XX
2013/2014 BOREHOLE BY HATCH
2007 BOREHOLE BY KNIGHT PIESOLD

ISSUED FOR CONSTRUCTION

PND ENGINEERS CANADA INC.

RUSKIN CONSTRUCTION LTD.

Baffinland Iron Mines Corporation

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APEGGA PROFESSIONAL ENGINEER R. P. WATTERS LICENSEE NWT/NU

5-30-14

REVISIONS

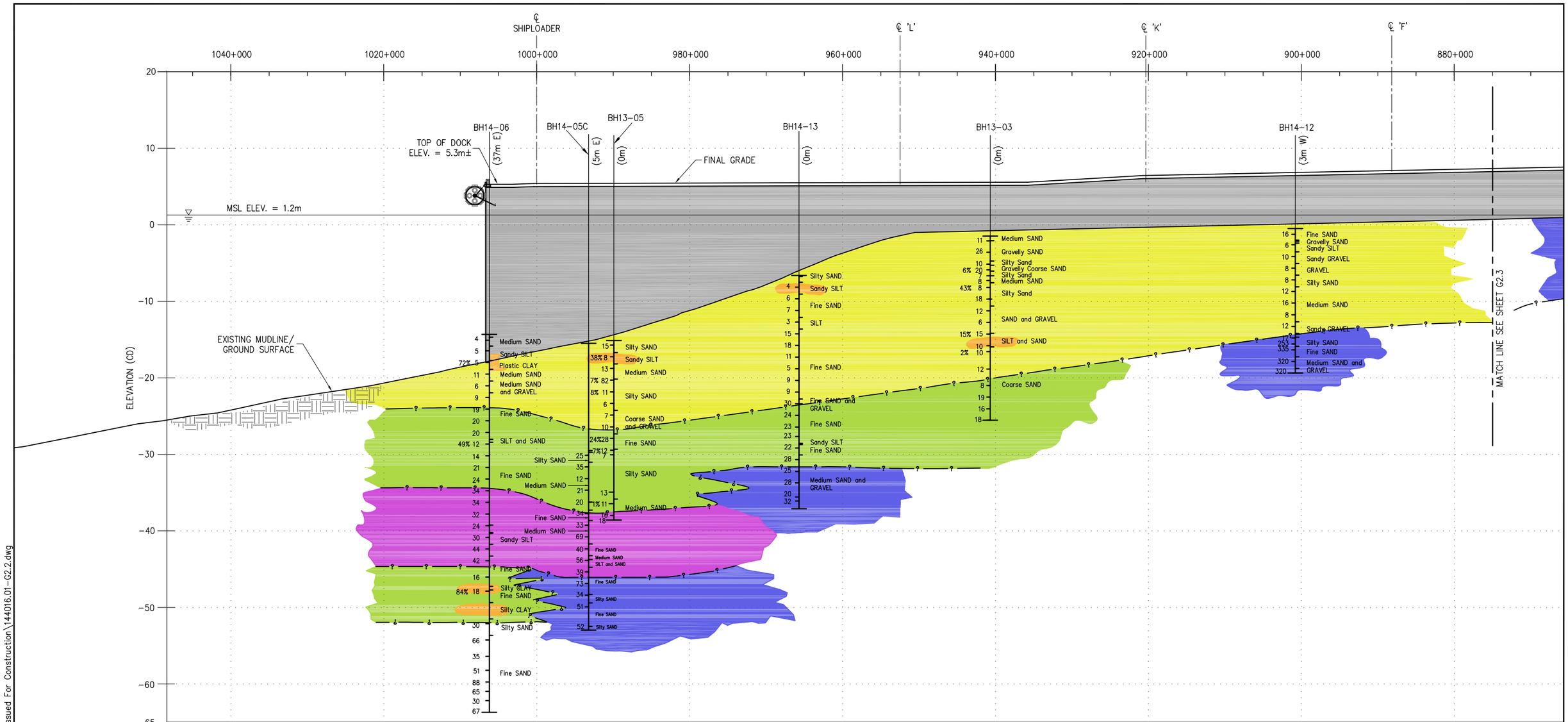
REV	DATE	DESCRIPTION

PROJECT: **MILNE INLET ORE DOCK**

TITLE: **GEOTECHNICAL EXPLORATION SITE PLAN**

DESIGNED BY:	CK2	PROJECT NO:	144016.01	SHEET NO:	G2.1
DRAWN BY:	DRH	DATE:	MAY 2014		
CHECKED BY:	GW	SCALE:	NOTED		

5/30/14 Drawings\2014\144016.01 – Milne Inlet Ore Dock\Design Drawings\Issued For Construction\144016.01–G2.1.dwg



LEGEND

BOREHOLE No. — BH13-01 — OFFSET (6M W)
PERCENT FINES — 6% — 7
BLOW COUNT — 12
SOIL CLASSIFICATION — Gravelly SAND / Silty Sand
INFERRED SOIL LAYER CONTACT

- FILL
- LOOSE TO MEDIUM DENSE SAND
- SILT/CLAY
- MEDIUM DENSE SAND
- DENSE TO VERY DENSE SAND
- FROZEN GROUND

NOTE:
THIS DRAWING IS FOR INFORMATION PURPOSES ONLY AND IS BASED ON GEOTECHNICAL DATA PREPARED BY OTHERS, NOT BY PND.

ISSUED FOR CONSTRUCTION

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5-30-14

REVISIONS

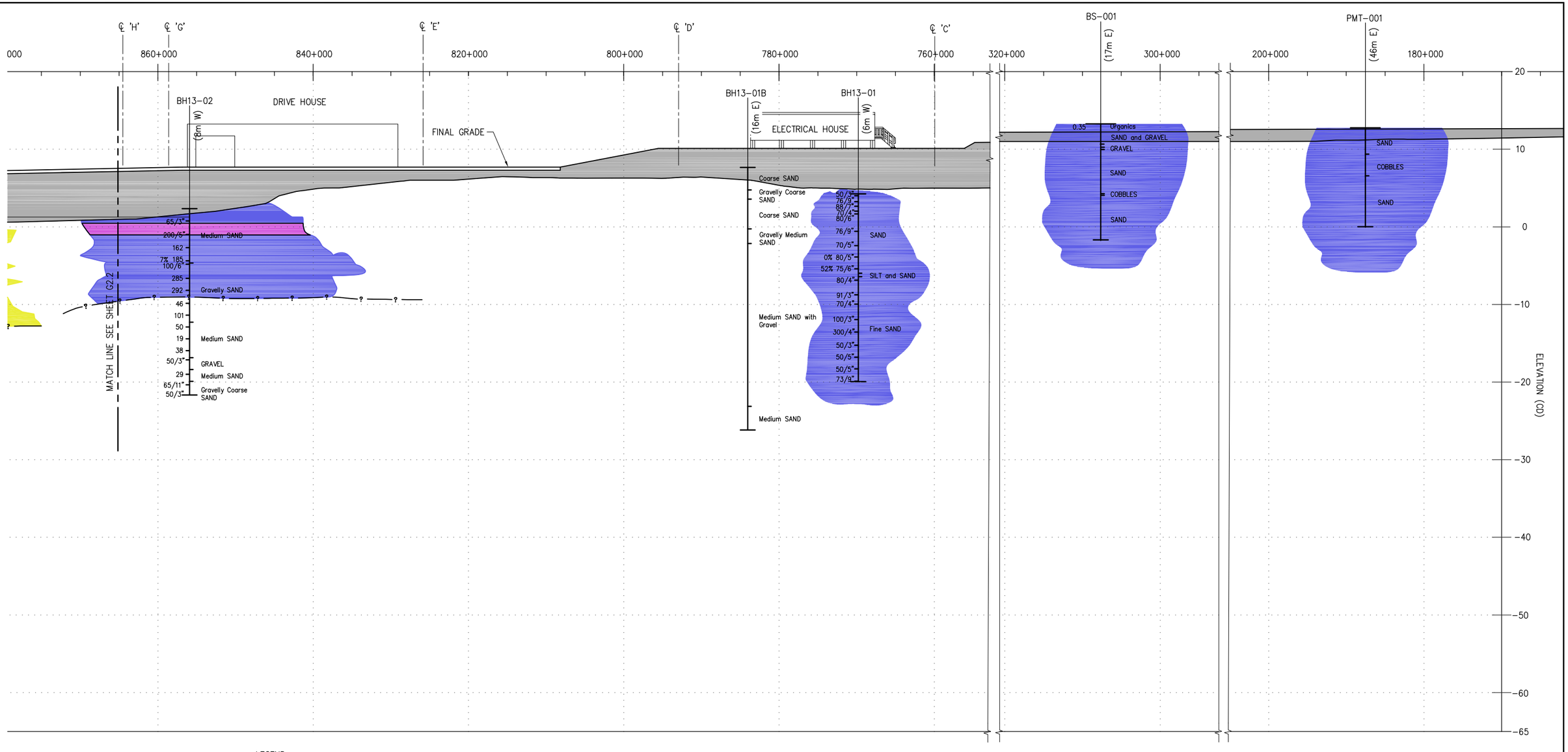
REV	DATE	DESCRIPTION

PROJECT: MILNE INLET ORE DOCK

TITLE: GEOTECHNICAL EXPLORATION SUBSURFACE PROFILE BASELINE 'A'

DESIGNED BY:	CK2	PROJECT NO:	144016.01	SHEET NO: G2.2
DRAWN BY:	DRH	DATE:	MAY 2014	
CHECKED BY:	GW	SCALE:	NOTED	

5/30/14
Drawings\2014\144016.01 - Milne Inlet Ore Dock\Design Drawings\Issued For Construction\144016.01-G2.2.dwg



LEGEND

BOREHOLE No. — BH13-01 (6M W) — OFFSET
SOIL CLASSIFICATION — Gravelly SAND
PERCENT FINES — 26 — 6% 7
BLOW COUNT — 12
Silty Sand
INFERRED SOIL LAYER CONTACT

- FILL
- LOOSE TO MEDIUM DENSE SAND
- SILT/CLAY
- MEDIUM DENSE SAND
- DENSE TO VERY DENSE SAND
- FROZEN GROUND

NOTE:
THIS DRAWING IS FOR INFORMATION PURPOSES ONLY AND IS BASED ON GEOTECHNICAL DATA PREPARED BY OTHERS, NOT BY PND.

ISSUED FOR CONSTRUCTION

PND ENGINEERS CANADA INC.

RUSKIN CONSTRUCTION LTD.

Baffinland Iron Mines Corporation

REGISTERED PROFESSIONAL ENGINEER — R. WATTS — LICENSEE — NWT/NU — SEAL

5-30-14

REVISIONS		
REV	DATE	DESCRIPTION

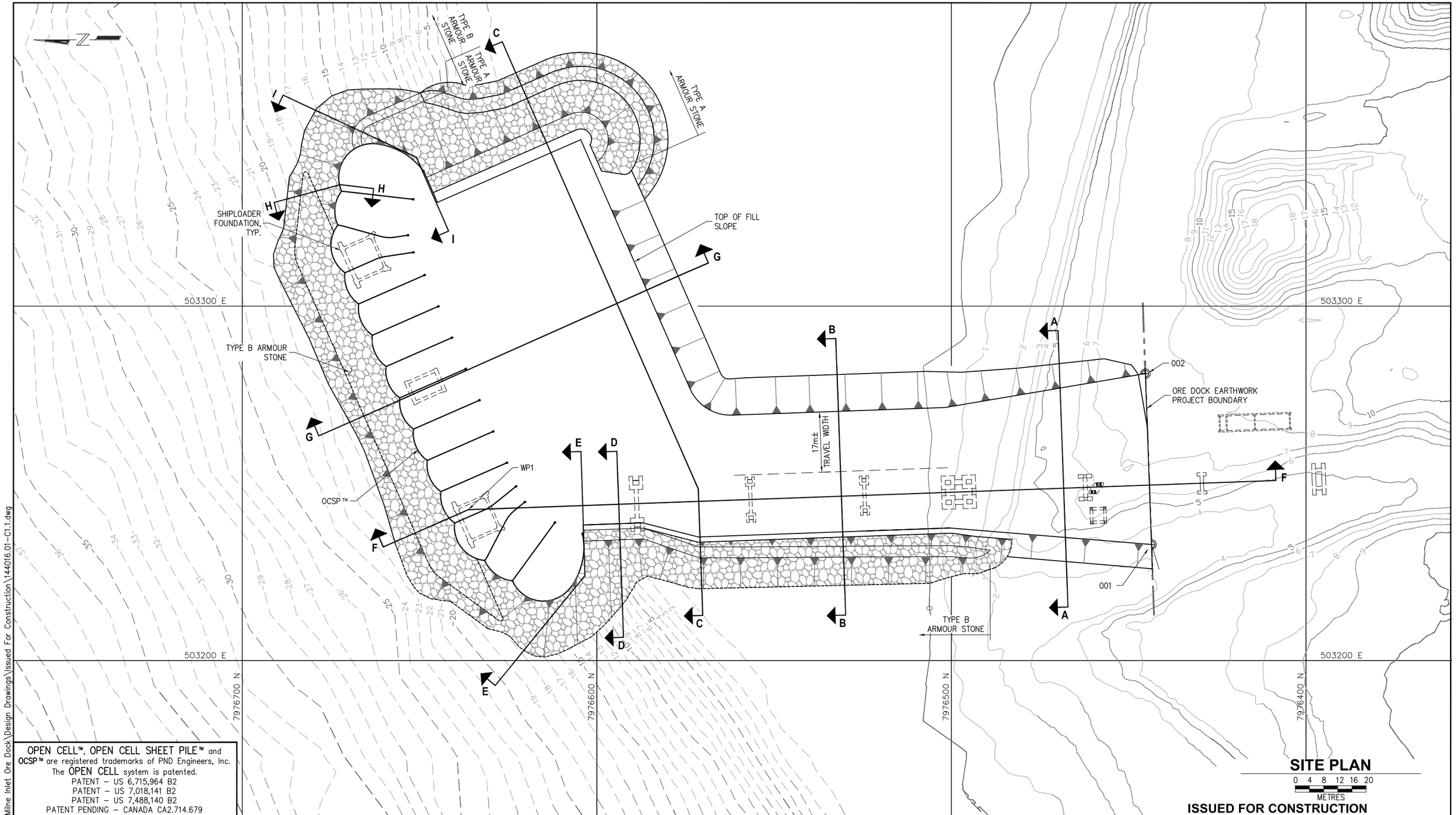
PROJECT: **MILNE INLET ORE DOCK**

TITLE: **GEOTECHNICAL EXPLORATION SUBSURFACE PROFILE BASELINE 'A'**

DESIGNED BY:	CK2	PROJECT NO:	144016.01
DRAWN BY:	DRH	DATE:	MAY 2014
CHECKED BY:	GW	SCALE:	NOTED

SHEET NO: **G2.3**

5/30/14 Drawings\2014\144016.01 - Milne Inlet Ore Dock\Design Drawings\Issued For Construction\144016.01-G2.3.dwg



SITE PLAN

0 4 8 12 16 20

METRES

ISSUED FOR CONSTRUCTION

PND ENGINEERS CANADA INC.

RUSKIN CONSTRUCTION LTD.

Baffinland Iron Mines Corporation

5-30-14

REVISIONS

REV	DATE	DESCRIPTION

PROJECT: **MILNE INLET ORE DOCK**

TITLE: **CIVIL - GENERAL PLAN**

DESIGNED BY:	CK	PROJECT NO:	144016.01	SHEET NO: C1.1
DRAWN BY:	DRH	DATE:	MAY 2014	
CHECKED BY:	GW	SCALE:	NOTED	

5/30/14
Drawings\2014\144016.01 – Milne Inlet Ore Dock\Design Drawings\Issued For Construction\144016.01-C1.1.dwg