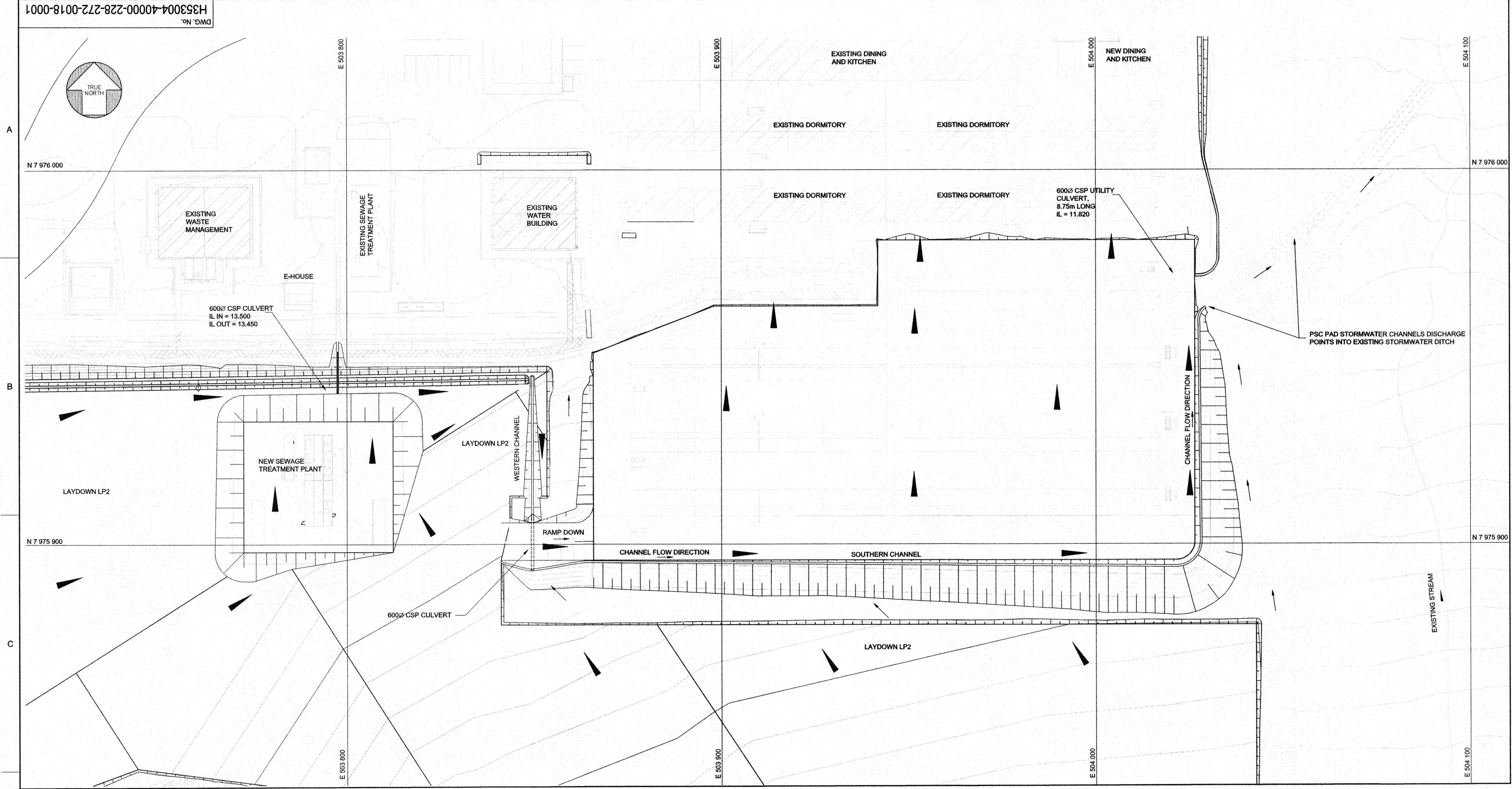


## Attachment 15.5

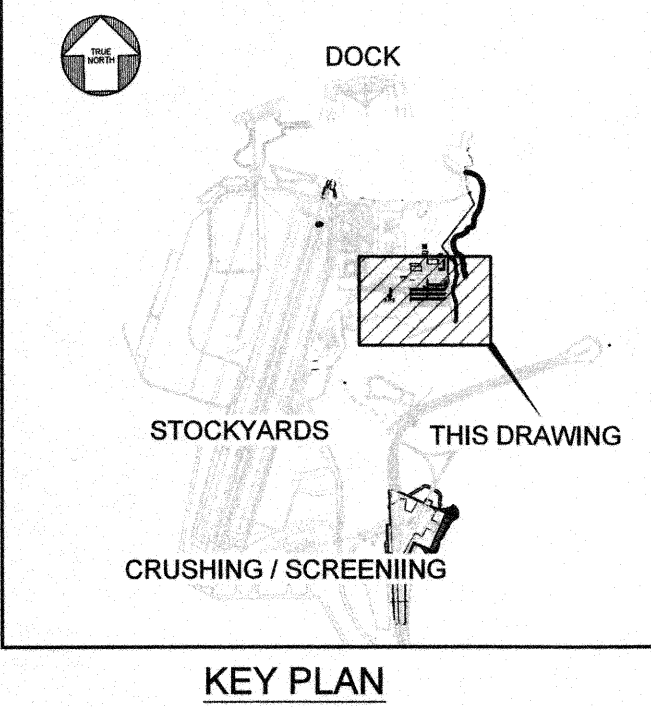
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### **Milne Port Site Complex Expansion Drawings**

(3 Pages)



PORT SITE COMPLEX EXPANSION - DRAINAGE PLAN  
SCALE 1:500



- NOTES:
1. LIDAR SURVEY PROVIDED BY PHOTOSAT (2016)
  2. CO-ORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METERS.
  3. CONTOURS ARE IN METERS. CONTOUR INTERVAL IS 0.5m.
  4. ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS NOTED OTHERWISE.
  5. FOR PAD LAYERWORKS CONSTRUCTION REFER TO DETAIL 1 ON DWG. No. H353004-00000-221-294-0002-0001.

- LEGEND:
- OFF PAD FLOW DIRECTION
  - ▲ ON PAD FLOW DIRECTION
  - ▭ EXISTING BUILDINGS

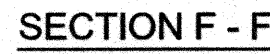
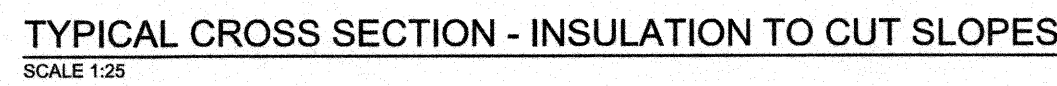
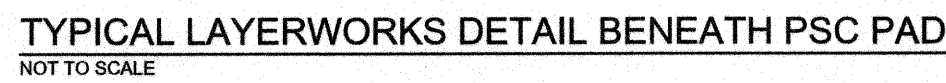
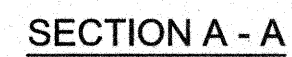
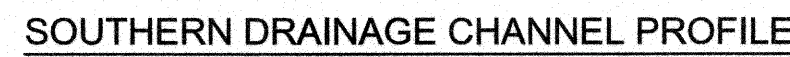
|                                                                                                                                                                                                       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>PERMIT TO PRACTICE<br/>HATCH LTD.<br/>Signature _____<br/>Date 2019-03-01<br/>PERMIT NUMBER: P 512<br/>The Association of Professional Engineers,<br/>Geologists and Geophysicists of NWT/NTNU</p> |  |
| <p><b>HATCH</b></p>                                                                                                                                                                                   |  |
| <p><b>Baffinland</b></p>                                                                                                                                                                              |  |
| <p><b>BAFFINLAND IRON MINES LP<br/>MARY RIVER EXPANSION PROJECT</b></p>                                                                                                                               |  |
| <p><b>PORT SITE<br/>PORT SITE COMPLEX PAD EXPANSION<br/>DRAINAGE PLAN</b></p>                                                                                                                         |  |
| <p>SCALE 1:500 OR AS NOTED<br/>DWG. No. H353004-40000-228-272-0018-0001<br/>REV 0</p>                                                                                                                 |  |
| <p>SHEET SIZE: E</p>                                                                                                                                                                                  |  |

|                                    |  |
|------------------------------------|--|
| <p>FOR CONSTRUCTION</p>            |  |
| <p>0 APPROVED FOR CONSTRUCTION</p> |  |
| <p>DESCRIPTION</p>                 |  |
| <p>REVISIONS</p>                   |  |

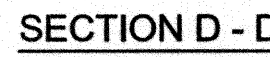
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| <p>REG. PROFESSIONAL</p>                                  |  |
| <p>No. _____</p>                                          |  |
| <p>BY _____</p>                                           |  |
| <p>CHKD _____</p>                                         |  |
| <p>DATE 28/02/2019</p>                                    |  |
| <p>ROLE _____</p>                                         |  |
| <p>NAME _____</p>                                         |  |
| <p>SIGNATURE _____</p>                                    |  |
| <p>DATE 19-03-19</p>                                      |  |
| <p>DRAWING APPROVAL STATUS: Approved for Construction</p> |  |

|                                                |  |
|------------------------------------------------|--|
| <p>DRAFTSPERSON I BARNARD NR</p>               |  |
| <p>DESIGNER I BARNARD NR</p>                   |  |
| <p>CHECKER F HUGO 2019-02-28</p>               |  |
| <p>DESIGN COORD. R GOOSEN 2019-02-28</p>       |  |
| <p>RESP. ENG. R HALIM 2019-03-01</p>           |  |
| <p>LEAD DISC. ENG. A GROSBELAAR 2019-02-28</p> |  |
| <p>AREA LEAD V LAVRIC 2019-02-28</p>           |  |
| <p>ENG. MANAGER R GOOSEN 2019-02-28</p>        |  |
| <p>AREA MANAGER T ATIBA 2019-02-28</p>         |  |

|                                                             |  |
|-------------------------------------------------------------|--|
| <p>1 PORT SITE COMPLEX EXPANSION - CROSS SECTIONS</p>       |  |
| <p>2 PORT SITE COMPLEX EXPANSION - LAYOUT PLAN</p>          |  |
| <p>3 LAYDOWN AREA LP2 - LAYOUT AND SECTIONS</p>             |  |
| <p>4 STANDARD DRAWING - EARTHWORKS AND DRAINAGE DETAILS</p> |  |
| <p>DRAWING No. _____</p>                                    |  |
| <p>DRAWING TITLE _____</p>                                  |  |
| <p>REFERENCE DRAWINGS</p>                                   |  |



1. ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
2. LAYERWORKS TO BE AS PER DETAILS ON DRAWING NO. H353004-0000-221-554-000-001 - DETAIL 1. THE LAYERWORKS FOR THE REST OF THE PAD TO BE AS PER DETAILS ON DRAWING NO. H353004-0000-221-554-000-001 - DETAIL 2. THE LAYERWORKS FOR PADS AND LAYDOWNCS SECTION AS SEEN ON THIS DRAWING.
3. FOR THE DRAINAGE PLAN REFER TO DRAWING NO. H353004-0000-226-272-018-001.
4. FILL MATERIAL A GRAIN SIZE DISTRIBUTION SHALL FOLLOW THE SPECIFICATION OF FILL MATERIALS. H353004-0000-280-078-000.
5. THE PLACEMENT AND COMPACTION OF TYPE 5, 8 AND 12 SHOULD FOLLOW THE REQUIREMENTS IN THE SPECIFICATION OF "PLACEMENT OF FILL. H353004-0000-221-078-0001".
6. "PLACEMENT OF FILL SHALL BE INSPECTED AND APPROVED BY AN EXPERIENCED GEOTECHNICAL ENGINEER OR THEIR DESIGNATE PRIOR TO FILLING THE NEXT LAYER.



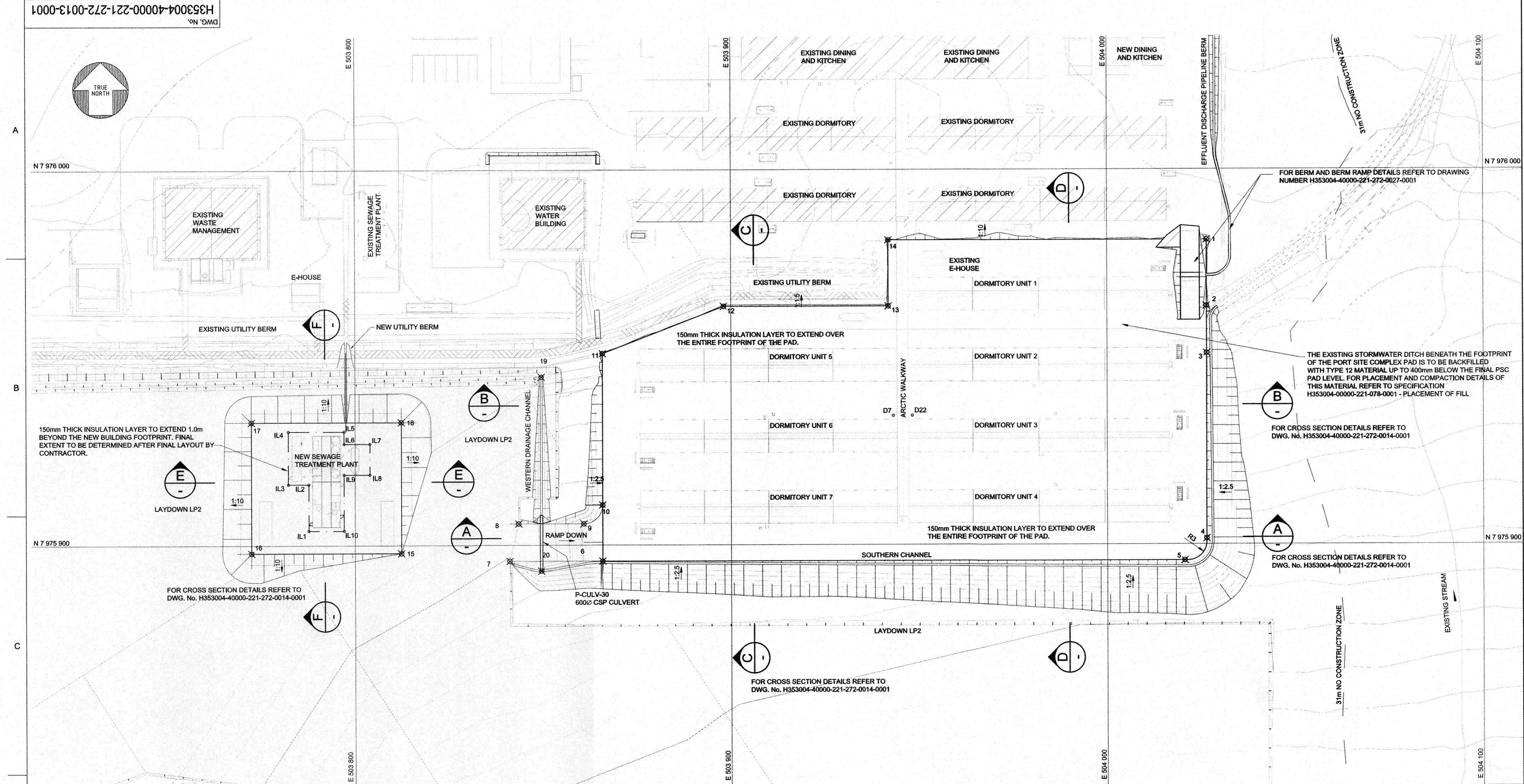
### REFERENCE DRAWINGS



FOR CONSTRUCTION

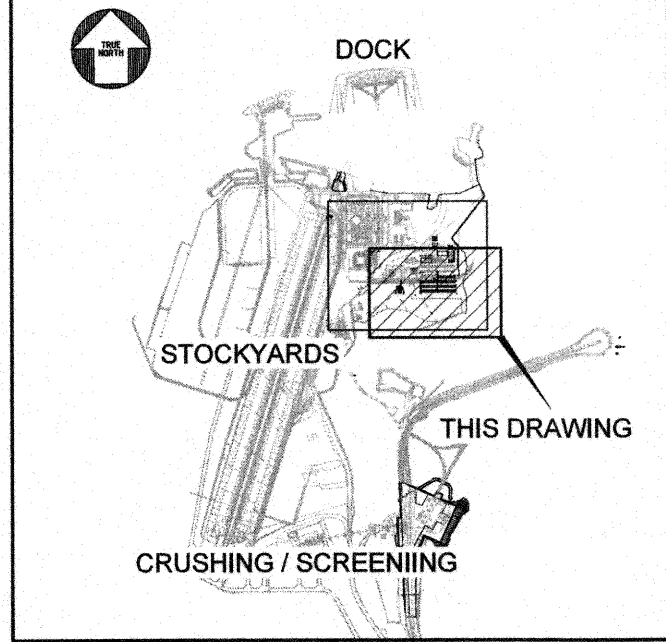
## HATCH

BAFFINLAND IRON MINES LP  
MARY RIVER EXPANSION PROJECT



PLAN ON PORT SITE COMPLEX EXPANSION  
SCALE 1:500

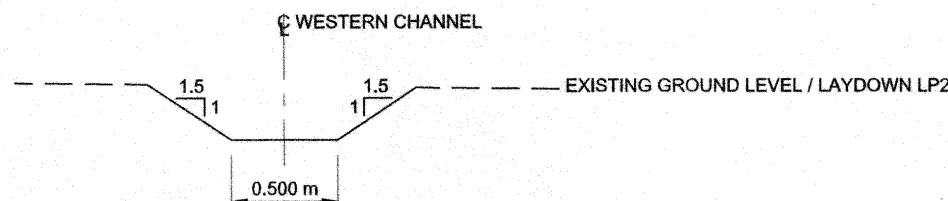
| PORT SITE COMPLEX PADS<br>SETTING OUT CO-ORDINATES |             |               |        |
|----------------------------------------------------|-------------|---------------|--------|
| POINT                                              | E           | N             | LEVEL  |
| 1                                                  | 504 026.448 | 7 975 981.259 | 11.840 |
| 2                                                  | 504 026.436 | 7 975 983.604 | 12.117 |
| 3                                                  | 504 026.428 | 7 975 950.998 | 12.243 |
| 4                                                  | 504 026.396 | 7 975 901.539 | 12.737 |
| 5                                                  | 504 020.562 | 7 975 895.727 | 12.796 |
| 6                                                  | 503 865.740 | 7 975 895.727 | 12.796 |
| 7                                                  | 503 841.062 | 7 975 895.737 | 15.042 |
| 8                                                  | 503 843.438 | 7 975 905.736 | 14.855 |
| 9                                                  | 503 860.744 | 7 975 905.728 | 12.881 |
| 10                                                 | 503 865.746 | 7 975 910.725 | 12.646 |
| 11                                                 | 503 865.755 | 7 975 951.102 | 12.243 |
| 12                                                 | 503 898.050 | 7 975 963.658 | 12.116 |
| 13                                                 | 503 941.860 | 7 975 963.658 | 12.116 |
| 14                                                 | 503 941.860 | 7 975 981.259 | 11.940 |
| 15                                                 | 503 812.276 | 7 975 897.916 | 14.300 |
| 16                                                 | 503 772.429 | 7 975 897.916 | 14.300 |
| 17                                                 | 503 772.429 | 7 975 932.864 | 14.250 |
| 18                                                 | 503 812.276 | 7 975 932.864 | 14.250 |
| 19                                                 | 503 949.488 | 7 975 944.878 | 13.228 |
| 20                                                 | 503 949.485 | 7 975 893.128 | 12.965 |



- KEY PLAN**
- NOTES:**
- LIDAR SURVEY PROVIDED BY PHOTASAT (2016). LEVELS BASED ON GEODETIC DATUM.
  - COORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METERS.
  - CONTOURS ARE IN METERS. CONTOUR INTERVAL IS 0.5m.
  - ALL DIMENSIONS SHOWN ARE IN METERS.
  - BULK LAYERWORKS TO BE AS PER DETAILS SHOWN ON DRAWING No. H353004-00000-221-294-0002-0001 - DETAIL 2.
  - FOR THE DRAINAGE PLAN REFER TO DRAWING No. H353004-00000-228-272-0018-0001.
  - FILL MATERIALS GRAIN SIZE DISTRIBUTION SHALL FOLLOW THE SPECIFICATION OF 'FILL MATERIALS, H353004-00000-280-078-0002'.
  - THE PLACEMENT AND COMPACTION OF TYPE 5, 8 AND 12 SHALL FOLLOW THE REQUIREMENTS IN THE SPECIFICATION OF 'PLACEMENT OF FILL, H353004-00000-221-078-0001'.
  - FOR LAYERWORKS BENEATH THE DORMITORY UNITS AND ARCTIC WALKWAY REFER TO DRAWING No. H353004-00000-221-272-0014-0001 - PAD CROSS SECTIONS.
  - PLACEMENT OF FILLS SHOULD BE INSPECTED AND APPROVED BY AN EXPERIENCED GEOTECHNICAL ENGINEER OR THEIR DESIGNATE PRIOR TO FILLING THE NEXT LAYER.

| INSULATION LAYER<br>SETTING OUT CO-ORDINATES |             |               |  |
|----------------------------------------------|-------------|---------------|--|
| POINT                                        | E           | N             |  |
| SEWAGE TREATMENT PLANT                       |             |               |  |
| IL.1                                         | 503 787.646 | 7 975 903.953 |  |
| IL.2                                         | 503 787.646 | 7 975 916.340 |  |
| IL.3                                         | 503 782.231 | 7 975 916.340 |  |
| IL.4                                         | 503 782.231 | 7 975 930.403 |  |
| IL.5                                         | 503 797.059 | 7 975 930.403 |  |
| IL.6                                         | 503 797.059 | 7 975 927.128 |  |
| IL.7                                         | 503 801.990 | 7 975 927.128 |  |
| IL.8                                         | 503 801.990 | 7 975 916.908 |  |
| IL.9                                         | 503 797.059 | 7 975 916.908 |  |
| IL.10                                        | 503 797.059 | 7 975 903.953 |  |

NOTE:  
150mm INSULATION BOARD TO BE PLACED ON SEWER TREATMENT PLANT AS INDICATED.  
IF CONTAINERS / PLANT IS PLACED DIFFERENTLY THEN INSULATION BOARD AND BACKFILL IS TO BE CHANGED ACCORDINGLY.



TYPICAL SECTION THROUGH WESTERN STORMWATER CHANNEL  
SCALE 1:25

**FOR CONSTRUCTION**

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**HATCH**

DRAFTSPERSON: I. BARNARD, NR  
DESIGNER: I. BARNARD, NR  
CHECKER: F. HUGO, NR  
DESIGN COORD.: R. GOOSEN, NR  
RESP. ENG.: R. HALIM, NR  
LEAD DISC. ENG.: A. GROBELAAR, NR  
AREA MANAGER: V. LAVRIC, NR  
PROJ. MANAGER: T. ATIBA, NR

0 APPROVED FOR CONSTRUCTION

DATE: 28/02/2019

BY: IHB, FH

CHKD: DATE

REVISIONS

DRAWING APPROVAL STATUS: Approved for Construction

SCALE: 1:500 OR AS NOTED

DWG. No. H353004-00000-221-272-0013-0001

REV: 0

SHEET SIZE: E

**PERMIT TO PRACTICE**  
HATCH LTD.  
Signature: [Signature]  
Date: 2019-03-01  
PERMIT NUMBER: P 512  
The Association of Professional Engineers, Geologists and Geophysicists of NWTNU

**Baffinland**  
BAFFINLAND IRON MINES LP  
MARY RIVER EXPANSION PROJECT  
PORT SITE COMPLEX PAD EXPANSION LAYOUT PLAN

REFERENCE DRAWINGS

|                                 |                                                    |
|---------------------------------|----------------------------------------------------|
| H353004-00000-221-272-0027-0001 | PSC EFFLUENT DISCHARGE PIPELINE - PLAN AND PROFILE |
| H353004-PC003-234-248-0001      | PC003 - INDEXER FOUNDATION SUPPLY PACKAGE          |
| H353004-00000-221-272-0014-0001 | PORT SITE COMPLEX EXPANSION - CROSS SECTIONS       |
| H353004-00000-228-272-0018-0001 | PORT SITE COMPLEX EXPANSION - DRAINAGE PLAN        |
| H353004-00000-221-273-0004-0001 | LAYDOWN AREA LP2 - LAYOUT AND SECTIONS             |
| H353004-00000-221-294-0002-0001 | STANDARD DRAWING - EARTHWORKS AND DRAINAGE DETAILS |

DRAWING No. H353004-00000-221-272-0013-0001

DRAWING TITLE: PORT SITE COMPLEX PAD EXPANSION LAYOUT PLAN