

March 16, 2009

Phyllis Beaulieu
Manager of Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0
Email: licensing@nunavutwaterboard.org

**Re: Submission of Bulk Fuel Storage Facility As-Built, Mary River Camp
Type B Water License #2BB-MRY0710, Part J, Item 4
Mary River Project**

Dear Ms. Beaulieu,

Baffinland Iron Mines Corporation (BIM) is pleased to submit, herewith, the required as-built documentation for the Mary River Bulk Fuel Storage Facility, which is a requirement of the above referenced water licence.

Please contact me should you have any questions concerning this submission at 902-495-0490 or by e-mail at jim.millard@baffinland.com.

Yours sincerely,

Baffinland Iron Mines Corporation

ORIGINAL COPY SIGNED

Jim Millard, M.Sc., P.Geo.
Environmental Superintendent

Cc. David McCann, BIM
Dick Matthews, BIM
Cheryl Wray, BIM

Attachment: As-Built Report for Mary River Bulk Fuel Storage Facility (Genivar)



834 Mountjoy Street South
P.O. Box 120
Timmins, Ontario P4N 7C5
Tel. (705) 264-9413
Fax. (705) 267-2725

March 15, 2009

Jim Millard, M. Sc., P. Geo.
Environmental Superintendent
Mary River Project
Baffinland Iron Mines Corporation
Suite 1016, 120 Adelaide Street West
Toronto, Ontario M5H 1T1

Dear Jim,

RE:

**MARY RIVER PROJECT
BULK FUEL STORAGE FACILITY AT MARY RIVER CAMP
AS-BUILT CONSTRUCTION REPORT
OUR REFERENCE NO. 09-058**

Genivar Consultants LP (Genivar) was retained by Baffinland Iron Mines Corporation (BIMC) to design the Bulk Fuel Storage Facility at their Mary River Camp site in Nunavut, provide limited QA/QC services during construction and subsequently to compile the required documentation of as-built conditions of the storage facility.

BACKGROUND

Part J, Part J (3), of the Water Licence (#2BB-MRY0710) for the Mary River Project issued by the Nunavut Water Board (NWB) states that:

"The Licensee shall provide as-built plans and drawings, stamped and sealed by a professional Engineer registered in Nunavut, within ninety (90) days of completion of all construction works, includingiii. Bulk Storage of fuel Facilities."

During 2007 and 2008, bulk fuel for the Mary River Project has been delivered to the Milne Inlet port. A Bulk Fuel Storage Facility has been built to contain all the required fuel at Milne Inlet camp. The as-built construction report for this facility was submitted to the NWB in December 2007. The plan in 2008 and 2009 is to transfer fuel from the Milne Inlet facility by tanker truck to the Mary River Camp

(approximately 100 km from Milne Inlet along the Milne Inlet Tote Road). Bulk fuel at the Mary River Camp is/will be stored in the Mary River Bulk Fuel Storage Facility which is the subject of the report, herein.

PROPOSED DESIGN OF THE FACILITIES AT MARY RIVER CAMP SITE

Figure 1 shows the site map indicating the Mary River Project sites from Steensby in the south to Mary River Camp in the north and Milne Inlet Camp in the north. Figure 2 shows the site plan arrangements at Mary River Camp Site.

Fuel was shipped via ocean tankers from the port of Montreal to Milne Inlet. All bulk fuel at Milne inlet has been stored in the Milne Inlet Bulk Fuel Storage Facility consisting of 74 fuel bladders within a lined and bermed containment. Bulk fuel is transferred by tanker truck from Milne Inlet to the Mary River bulk fuel storage facility. Figures 3 and 4 included in Appendix 1 show the construction design details of the Bulk Fuel Storage Facility design at the Mary River Camp Site. The Fuel bladders are identified in NIRB's Northern Remote Site Protocols document (Dillon, 1998) and have been used by both private companies and the federal government in Nunavut, Yukon and other arctic regions of the world. The fuel bladders were supplied by Raymac Industries and engineered by SEI Industries. Detailed arrangement of the fuel bladders in the containment as well as piping arrangement is included in Appendix 2.

As shown in the related drawings in Appendix 1, the fuel storage facility was designed with an earthen berm lined with a petroleum-resistant geomembrane liner (Hazard HZ-500) that meets ULC/ORD-C58.9-1997 specifications for Underground and Aboveground flammable and combustible liquid storage tanks. The liner was to be covered with approximately 300mm of granular material to protect it from damage.

The containment was designed to hold 110% of total aggregate capacity of the fuel facility as per the CCME's "Environmental Code of Practice for Aboveground and Underground Storage Tank Systems containing Petroleum and Allied Petroleum Products" and "National Fire Code of Canada" standards. As well, the containments design consisted of a sump for collection of precipitation. The containments floors were designed to grade towards the sump. The sump was designed to be periodically pumped and contaminated water treated by an appropriate portable treatment unit. The treatment process involves oil water separator, filtration through two types of media, and polishing using activated carbon if required. The clean water from the process (that meets Water Licence Criteria) was designed to be discharged to the receiving environment while the oil and filter media was to be collected in drums and subsequently shipped offsite for recycling.

The Mary River Bulk Fuel Storage Facility was designed to contain 16 bladders, each containing 113,560 litres. Two to four of the bladders were to be used for

the storage of aviation fuel while the remaining bladders were to be used for the storage of diesel fuel.

The fuel facility was designed to be equipped with dispensing stations consisting of electric pumps and shut-off valves in a lined pad backfilled with granular material. The precipitation within this area was to be collected in a sump and treated as required. Any fuel spills was designed to be contained within the lined areas which can then be excavated, tested and treated as necessary at the end of the project.

AS-CONSTRUCTED CONDITIONS OF THE FACILITY

Containment construction

The containment for the Bulk Fuel Storage Facility was constructed in general conformance with the design. For details on the plans and sections of the containment construction, please refer to Figure 5 in Appendix 1 for as-constructed drawing of the Mary River Bulk Fuel Storage Facility.

The material used for the containment berms and base was obtained from nearby borrow sources. The material was free of any deleterious substances and was approved by the liner construction staff. A certificate of acceptance is included in Appendix 2 by Raymac/Layfield who was the supplier and contractor for the containment liner.

The liner was installed and welded as per the design criteria as well as liner manufacturer's recommendations. The liner was a nominal 40-mil impermeable material (commercially known as Hazgard 50). Quality Assurance and Quality Control was provided by Layfield (the liner material supplier) and a QA/QC report is included in Appendix 2.

Mechanical (bladders, pipes, valves...)

All mechanical components of the Bulk Fuel Storage Facility including the bladders (fuel tanks), the piping network within the containment, valves, the sump, oil/water separator, the piping from the shore to the Bulk Fuel Storage Facility, and the contaminated water treatment system were designed by SEI Industries and constructed by Raymac Inc.

Design drawing of the mechanical components of the Bulk Fuel Storage Facility at the Mary River Camp Site is included in Appendix 2.

It is our opinion that the Bulk Fuel Storage Facility containment was designed and built in general conformance with CCME's "Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products" as well as "National Fire Code of Canada".

The following requirements have either been followed or shall be followed by BIMC in order to ensure compliance with CCME and NFC guidelines prior to the operation of the facility:

Tank Registration

Each storage tank (bladder) will be registered with the Fire Marshal in 2009. The registration document will include the name of owner, address of owner, type of facility, location of the tanks, storage capacity of the tank, type of product stored, year of installation, ULC standard of tank (bladder), type of storage material, type of piping material, type of corrosion protection (if any), type of pumps, description of leak detection system, type of secondary containment, name of operator, name of land owner, name of installer, manufacturer of storage tanks as per CCME, item 2.4.2.

Visual Leak Detection

BIMC conducts periodic visual inspections of each fuel bladder in accordance with the fuel management practice and schedule that has been developed for the Project. An inventory reconciliation plan has been developed for facility operations as part of the leak detection system.

Spill Contingency plan

The Bulk Fuel Storage Facility operation shall comply with the guidelines set forth by the Spill Contingency Planning and Reporting Regulations. This spill Contingency Plan has been provided by BIMC to the Nunavut Water Board and a copy is available at each site.

Bladder and Product Identification

Each tank/bladder should be identified in conformance with the Canadian Petroleum Products Institute (CPPI) "using the CPPI Colour-symbol system to mark equipment and vehicles for product identification".

Fire Protection

At least two (2) fire extinguishers, each having a rating of not less than 80-B:C, has been provided at the truck loading pad and at the fuel intake to the Bulk Fuel Storage Facility.

Please note that in all cases, the authority having jurisdiction is as follows:

Fire Marshall
Department of Community Government & Transportation
Government of Nunavut
P.O. Box 1000, Station 700
Iqaluit, Nunavut X0A 0H0
Tel. 879-975-5310
Fax. 867-979-4221

We trust this report is satisfactory and meets your requirements. However, should you have any questions, please do not hesitate to contact the undersigned for further discussion.

Yours truly,

Genivar Consultants LP

F. G. Kord



Marz G. Kord, P. Eng., M.Sc., MBA



APPENDIX 1

DRAWINGS





APPENDIX 2

**AS-CON STRUCTURED REPORTS (QA/QC)
PHOTOGRAPHS**

MARY RIVER



CERTIFICATE OF ACCEPTANCE OF SOIL SUBGRADE SURFACE

PROJECT NAME: Fuel Farm
PROJECT NUMBER: 07C-015
OWNER: Baffinland Iron Mines
LOCATION: Mary River

I, the undersigned, a duly appointed representative of Layfield Environmental Systems Ltd. (LESL), have visually observed the soil subgrade described below, and found it to be an acceptable surface on which to install geomembrane.

This certification is based on observations of the surface of the subgrade only. No subterranean inspections or tests have been performed by Layfield Environmental Systems, and LESL makes no representations or warranties regarding conditions which may exist below the surface of the subgrade. Layfield Environmental Systems accepts no responsibility for conformance of the subgrade to this project's specifications.

The soil subgrade accepted on this date refers to its present condition. Any changes in the subgrade condition that result from the effects of inclement weather and/or other forces beyond the control of Layfield Environmental Systems and remedial work to correct the resulting deficiencies, will be the direct responsibility of the General Contractor.

Area Being Accepted: Areas under panels A1-A4 and
panel B1&B2, uncompacted surface & berms, some
rock & snow, generally sand

LAYFIELD ENVIRONMENTAL SYSTEMS REPRESENTATIVE:

Date: October 18, 2007
Signature: [Signature]
Name: Allan McKinnon
Title: Project Supervisor

OWNERS REPRESENTATIVE:

Date: Oct 18 / 2007
Signature: [Signature]
Name: BONNIE LAMOND
Title: PROJECT MGR
Company: BAFFINLAND IRON MINES

CERTIFICATE OF FINAL INSPECTION AND ACCEPTANCE

PROJECT NAME: Fuel Farm
PROJECT NUMBER: 07C-015 DATE: Oct. 18, 2007
OWNER: Battinland Iron Mines
LOCATION: Mary River

Scope of Installation(s): **THE WORK**
Installed, welded/repaired/tested approx 3,880 sq. meters
of Hazgord 500. Installed approx 8,150 sq. meters of
LP-16 textile as an overlay underlay. Lined
1 sump as per owner. Cleared up area of
garbage upon completion.

Part 1 - LAYFIELD ENVIRONMENTAL SYSTEMS LTD.

I, Allan McKinnon, a duly appointed representative of Layfield Environmental Systems Ltd. (LESL), have visually observed the installations (as outlined above), and have found the Work to be complete and free of defects and declare that the Work was completed in accordance with the project specifications, Layfield Environmental Systems' QC program and the terms and conditions of the contract.

Layfield Environmental Systems Representative:

Name: Allan McKinnon
Title: Project Supervisor
Date: Oct. 18, 2007 Signature: Allan McKinnon

Part 2 - OWNER (or Representative)

I, ROLAND LANDRY, a duly appointed representative of BATTINLAND
IRON MINES, do hereby take over and accept the installation(s)
described above, and confirm that the work has been completed in accordance with the project specifications and the terms of the conditions of the contract.

I have evaluated and measured the work together with the Layfield Environmental Systems representative, and agree that the measurements shown are both true and correct, and that the installation has met our approval.

Owners Representative:

Name: ROLAND LANDRY
Title: PROJECT MANAGER
Company: BATTINLAND IRON MINES
Date: OCT 18/07 Signature: Roland Landry

Comments: _____

2m 2m
 ← 27m → Toe to toe 2m
 Typical E-W cross section

Checklist

1. NORTH ARROW ? ☒
2. REPAIR NUMBERS & LOCATIONS ? ☒
3. SITE DIMENSIONS ? ☐
4. SLOPE LENGTHS ? ☐
5. TITLE BLOCKS COMPLETED ? ☐
6. CERT. OF SUBGRADE ACCEPTANCE ? ☐
7. CERT. OF FINAL ACCEPTANCE ? ☐

Notes:

1) SEAM NUMBERS SHOWN ON TESTING LOG SHEETS REPRESENT THE ADJACENT PANEL NUMBERS.

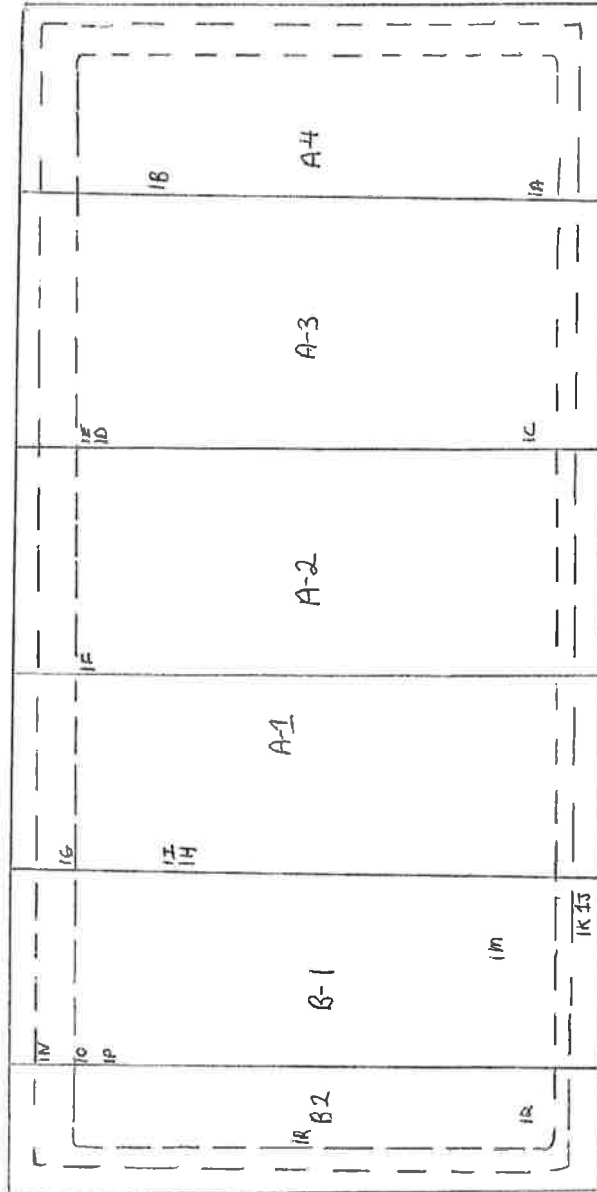
LEGEND

- CHANGE IN GRADE
- LINER FIELD SEAM
- ANCHOR TRENCH
- P3 PANEL NUMBER
- ⊗ PIPE PENETRATION
- R2 REPAIR NUMBER
- △ PATCH
- XXX EXTRUSION BEAD (OR WELD)

LAYFIELD PLASTICS

PROJECT NAME, CLIENT, LOCATION, MAT'L TYPE, ETC.
 Baymac
 Baffinland Iron mines
 Many River Fuel Farm
 Hazgard 500

SCALE: N.T.S.	PROJECT No.
DWG: 1 OF 1	07C-015
DRAWN BY: CHD	APPS
DATE: October 28, 2007	



GEOSYNTHETICS INVENTORY LOG

PROJECT NUMBER: 07C-015
OWNER: Baffinland Iron Mines
LOCATION: Mary River

PROJECT TITLE: Fuel Form
CONTRACTOR: _____
SHEET NUMBER: 1 of 1

MATERIAL TYPE: GEOMEMBRANE GEONET GEOTEXTILE OTHER _____
DATE OF ARRIVAL: _____ DATE OF INVENTORY: Sept. 29, Oct. 11, 2007
UNLOADING METHOD: _____ INVENTORY BY: Asm
PRODUCT TYPE: LP16 x Hazard 500 CONDITION IN TRUCK: _____
MATERIAL MANUFACTURER: _____

[illegible]

SUBMITTED BY: Asin

DATE: October 26, 2007

[illegible]

SUBMITTED BY: Oct. 26, 2007
DATE: ASW.

LAYFIELD ENVIRONMENTAL SYSTEMS



GEOMEMBRANE SEAM LOG

PROJECT NUMBER: 07C-015 PROJECT TITLE: Fuel Farm.
OWNER: Goffland Iron Mine CONTRACTOR: _____
LOCATION: Mary River

PASSING TRIAL SEAMS

✓ FUSION _____ SHEET NUMBER: 1
EXTRUSION _____ DATE: October 8, 2007
SOLVENT _____

NO.	TIME	TECH ID
<u>TF-1</u>	<u>1645</u>	<u>AM</u>

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES		APPROX. LENGTH WELDED	DESTR. NUMBER	CHK'D BY	REMARKS	NON- DESTRUCTIVE	
							DIGITAL SET WEDGE OR BARREL	DIGITAL SET WEDGE OR BARREL					TEST DATE	CHECKED BY
<u>AH1A3</u>	<u>WEOS - EOS</u>	<u>1710</u>	<u>-3°C</u>	<u>AM</u>	<u>50%</u>	<u>825</u>	-	-	<u>37 m</u>		<u>AM</u>		<u>10-8</u>	<u>AM</u>
<u>/</u>	<u>-</u>						-	-						
<u>/</u>	<u>-</u>						-	-						
<u>/</u>	<u>-</u>						-	-						
<u>/</u>	<u>-</u>						-	-						
<u>/</u>	<u>-</u>						-	-						
<u>/</u>	<u>-</u>						-	-						
<u>/</u>	<u>-</u>						-	-						
<u>/</u>	<u>-</u>						-	-						
<u>/</u>	<u>-</u>						-	-						
<u>/</u>	<u>-</u>						-	-						
<u>/</u>	<u>-</u>						-	-						
<u>/</u>	<u>-</u>						-	-						
DAILY TOTAL									<u>37 m</u>					

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.
SUBMITTED BY: ASm
DATE: October 26, 2007



GEOMEMBRANE SEAM LOG

PROJECT NUMBER: 07C-015

OWNER: Baffinland Iron Mines

LOCATION: Mary River

PROJECT TITLE: Fuel Farm

CONTRACTOR:

PASSING TRIAL SEAMS

NO.	TIME	TECH ID
TF-2	1245	A.M

FUSION _____
 EXTRUSION _____
 SOLVENT _____

EXTRUSION

SOLVENT

SHEET NUMBER: 2

DATE: Oct. 9, 2007

[illegible]

DAILY TOTAL

73.6 cm

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.

SUBMITTED BY: AsmDATE: October 26, 2007

LS FORM 4

LAYFIELD ENVIRONMENTAL SYSTEMS



GEOMEMBRANE SEAM LOG

PROJECT NUMBER: 07C-015

OWNER: Baffinland Iron Mines

LOCATION: Mary River

PROJECT TITLE: Fuel Farm

CONTRACTOR: _____

PASSING TRIAL SEAMS

☒ FUSION

EXTRUSION

SOLVENT

NO. TIME TECH ID

TF3	1235	AM

SHEET NUMBER: 3

DATE: October 14, 2007

SEAM NUMBER	SEAM SECTION * START POINT FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES		APPROX. LENGTH WELDED	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE	
						DIGITAL SET	DIGITAL SET					TEST DATE	CHECKED BY
A11B1	WE05-EE05	1308	-3°C	AM	50%	825°	-	35.3 m		AM		10-14	AM
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
DAILY TOTAL								35.3 m					

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.

SUBMITTED BY: ASm

DATE: October 26, 2007



GEOMEMBRANE SEAM LOG

PROJECT NUMBER: 37C-015

OWNER: Baffinland Iron Mines

LOCATION: Mary River

PROJECT TITLE: Fuel Form

CONTRACTOR: _____

PASSING TRIAL SEAMS

☒ FUSION

EXTRUSION

SOLVENT

NO. TIME TECH ID

TF-4	1330	Am

SHEET NUMBER: 4

DATE: October 15, 2007

SEAM NUMBER	SEAM SECTION * START POINT FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES		APPROX. LENGTH WELDED	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE	
						DIGITAL SET WEDGE OR BARREL	DIGITAL SET WEDGE OR BARREL					TEST DATE	CHECKED BY
B21B1	FEOS-WEOS	1410	-2°C	Am	50%	825	-	349m		Am		10-15	Am
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
DAILY TOTAL								34.9m					

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.

SUBMITTED BY: Am

DATE: October 26, 2007



GEOMEMBRANE VACUUM / AIR LANCE TEST LOG

PROJECT NUMBER: 076-015
OWNER: Beffield Iron Mines
LOCATION: Mary River
PROJECT TITLE: Fuel Farm
CONTRACTOR:
DATE:

VACUUM BOX _____

AIR LANCE ✓

SHEET NUMBER: 1

SEAMS										REPAIRS				
SEAM NUMBER	SEAM SECTION * FROM TO	TEST DATE	TECH ID	DEFECTS **	SEAM COMPLETE NO YES	CHK'D BY	REMARKS **	DEFECT CODE	TEST DATE:	TECH ID	DEFECTS **	CHK'D BY	REMARKS **	
A3-A4	WEOS - EEOS	10-8	Am			✓		1A	10-6	Am		Am		
A3-A2	WEOS - EEOS	10-9	Am			✓		1B	10-8	Am		Am		
A2-A1	WEOS - EEOS	10-9	Am			✓		1C	10-8	Am		Am		
A1-B1	WEOS - EEOS	10-14	Am			✓		1D	10-8	Am		Am		
B2-B1	WEOS - EEOS	10-15	Am			✓		1E	10-9	Am		Am		
	-							1F	10-9	Am		Am		
	-							1G	10-14	Am		Am		
	-							1H	10-14	Am		Am		
	-							1I	10-14	Am		Am		
	-							1J	10-14	Am		Am		
	-							1K	10-14	Am		Am		
	-							1L	10-14	Am		Am		
	-							1M	10-14	Am		Am		
	-							1N	10-15	Am		Am		
	-							1O	10-15	Am		Am		
	-							1P	10-15	Am		Am		
	-							1Q	10-15	Am		Am		
	-							1R	10-17	Am		Am		
	-													
	-													

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT LOCATION ON THE SEAM

** RECORD QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS

SUBMITTED BY: ASUN
DATE: October 26, 2007

LAYFIELD ENVIRONMENTAL SYSTEMS



LAYFIELD

GEOMEMBRANE DEFECT / REPAIR LOG

PROJECT NUMBER: 07C-015

PROJECT TITLE: Fuel Farm

OWNER: Boffinland

CONTRACTOR:

LOCATION: Mary River

SHEET NUMBER: 1

DEFECT CODE	LOG DATE	DEFECT LOCATION		DEFECT TYPE	REPAIR TYPE	WELD TECH.	REPAIR DATE	REMARKS	TEST DATE	CHECKED BY
		SEAM OR PANEL NO.	DEFECT LOCATION DESCRIPTION							
1A	10-8	Seam A4-A3	11.4m from WEOS	WR	P	AM	10-8		10-8	AM
1B	10-8	Seam A4-A3	28.1m from WEOS	WR	P	AM	10-8		10-8	AM
1C	10-9	Seam A3-A2	9m from WEOS	XS				welded flap	10-9	AM
1D	10-9	Seam A3-A2	30.1m from WEOS	WR	P	AM	10-9		10-9	AM
1E	10-9	Seam A3-A2	32.3m from WEOS	WR	P	AM	10-9		10-9	AM
1F	10-9	Seam A2-A1	East toe	XS				welded flap	10-9	AM
1G	10-14	Seam A1-B1	3.8m from WEOS	WR	P	AM	10-14		10-14	AM
1H	10-14	Seam A1-B1	22.1m from WEOS	WR	P	AM	10-14		10-14	AM
1I	10-14	Seam A1-B1	23.6m from WEOS	WR	P	AM	10-14		10-14	AM
1J	10-14	Panel B1	West crest	SR	P	AM	10-14	2.3m from S A1-B1	10-14	AM
1K	10-14	Panel B1	West crest	SR	P	AM	10-14	3.6m from S A1-B1	10-14	AM
1L	10-14	Panel B1	22.1m from Wedge	SR	P	AM	10-14	4.1m N of S A1-B1	10-14	AM
1M	10-14	Panel B1	8m from Wedge	SR	P	AM	10-14	12.2m N of S A1-B1	10-14	AM
1N	10-15	Seam B1-B2	East crest	WR	P	AM	10-15	welded flap	10-15	AM
1O	10-15	Seam B1-B2	East toe	WR	P	AM	10-15		10-15	AM
1P	10-15	Seam B1-B2	6.2m from WEOS	WR				welded flap	10-15	AM
1Q	10-15	Panel B2	7m from N edge	SR	P	AM	10-15	4m from W toe	10-15	AM
1R	10-17	Panel B2	8m from N toe	Sump			10-17	13m from E toe	10-17	AM

DEFECT TYPE: AD - ANIMAL RELATED DAMAGE

B - UNDISPERSED RESIN BEAD

BO - FUSION WELDER BURN

BS - BOOT SKIRT FROM FILL PENETRATION

CO - CHANGE OF OVERLAP

CR - CRACK

D - INSTALLATION DAMAGE

DS - DESTRUCTIVE TEST NUMBER

REPAIR TYPE: P - PATCH, C - CAP, RS - RECONSTRUCTED SEAM, GRW - GRIND WELD

EE - ELECTRICAL EQUIPMENT DAMAGE

EXT - EXTENSION

FM - FISHMOUTH

FS - FAILED SEAM LENGTH

FTS - FIELD TEST STRIP

HT - HEAT TACK BURN

IO - INSUFFICIENT OVERLAP (UNDER SPEC)

MD - MANUFACTURE DELIVERY DAMAGE

PT - PRESSURE TEST CUT

SI - SOIL SURFACE IRREGULARITY

SL - SLAG ON TEXTURED SHEET

T - THREE PANEL INTERSECTION

VL - VACUUM TEST LEAK

WR - WRINKLE

WS - WELDER BURN

OTHER: SR - snow removal

PASSING TRIAL SEAMS

NO.

TIME

TECH ID.

** COLUMNS TO BE USED BY THE PROJECT SUPERVISOR OR LEAD TECHNICIAN ONLY.

LPL FORM 7

LAYFIELD ENVIRONMENTAL SYSTEMS

SUBMITTED BY: ASM

DATE: Oct. 26, 2007



Bulk Fuel
Storage Facility

Photo 1: Mary River aerial view. The Bulk Fuel Storage Facility is seen above.



Photo 2: The slopes of the berms are prepared as per the design.



Photo 3: The base of the containment area is being prepared.



Photo 4: The slopes and the base are ready for the installation of the liner.



Photo 5: The liner material is shown above.



Photo 6: The liner is being installed within the containment and slopes.



Photo 7: Liner is installed over the slopes. The slopes and the base of the liner will then be protected with appropriate thickness of granular material.



Photo 8: Granular material is being placed over the liner.



Photo 9: Appropriate amount of cover is being placed over the liner.



Photo 10: Completed containment is seen above.



Photo 11: Fuel bladders are placed at their appropriate locations as per the design.



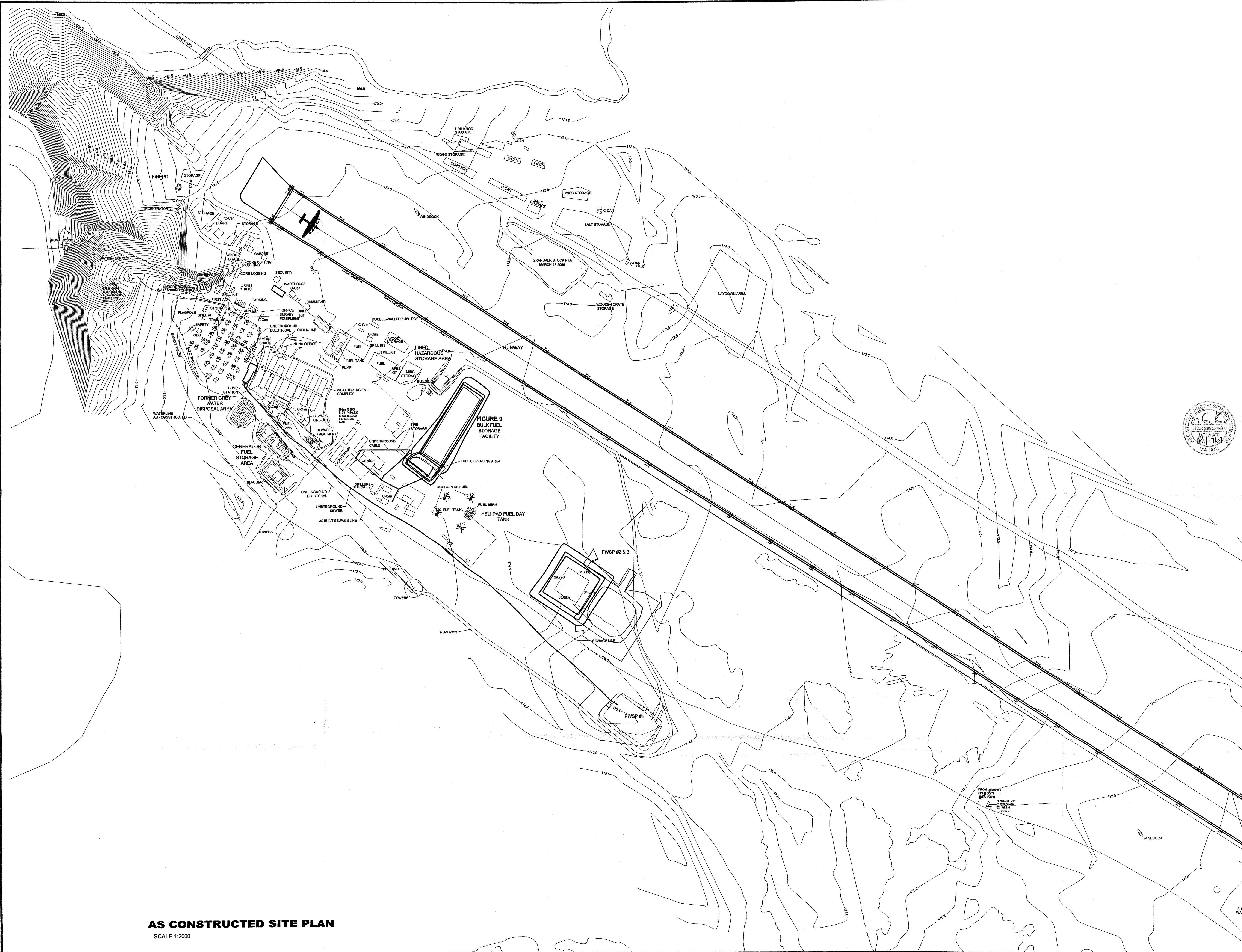
Photo 12: Fuel dispensing area is being prepared.



Photo 13: Mechanical crew installing the piping as per the design by SEI.



Photo 14: Bulk Fuel Storage Facility at completion.

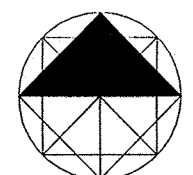


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Description	Date	No.
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ARCHITECT STRUCTURAL/CIVIL

MECHANICAL

Project

**MARY RIVER PROJECT
BAFFINLAND IRON
MINES CORPORATION**

BAFFIN ISLAND NUNAVUT

Drawing

**AS CONSTRUCTED
MARY RIVER
SITE PLAN**

Date MARCH 2009	CADD File Number REPORT/FUEL FARM/
Scale 1:2000	Job Number 09-058
Drawn SO	
Checked MK	Drawing Number
Approved	FIGURE 2

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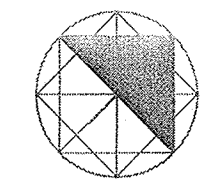
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LEGEND

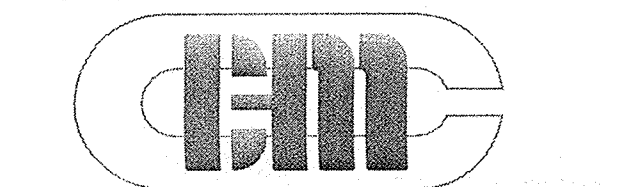
X 174.30 PROPOSED ELEVATION

174.00 EXISTING ELEVATION

ISSUED FOR CONSTRUCTION	July 03, 2007	1
ISSUED FOR TENDER/REVIEW	Mar. 25, 2007	0
Description	Date	No.
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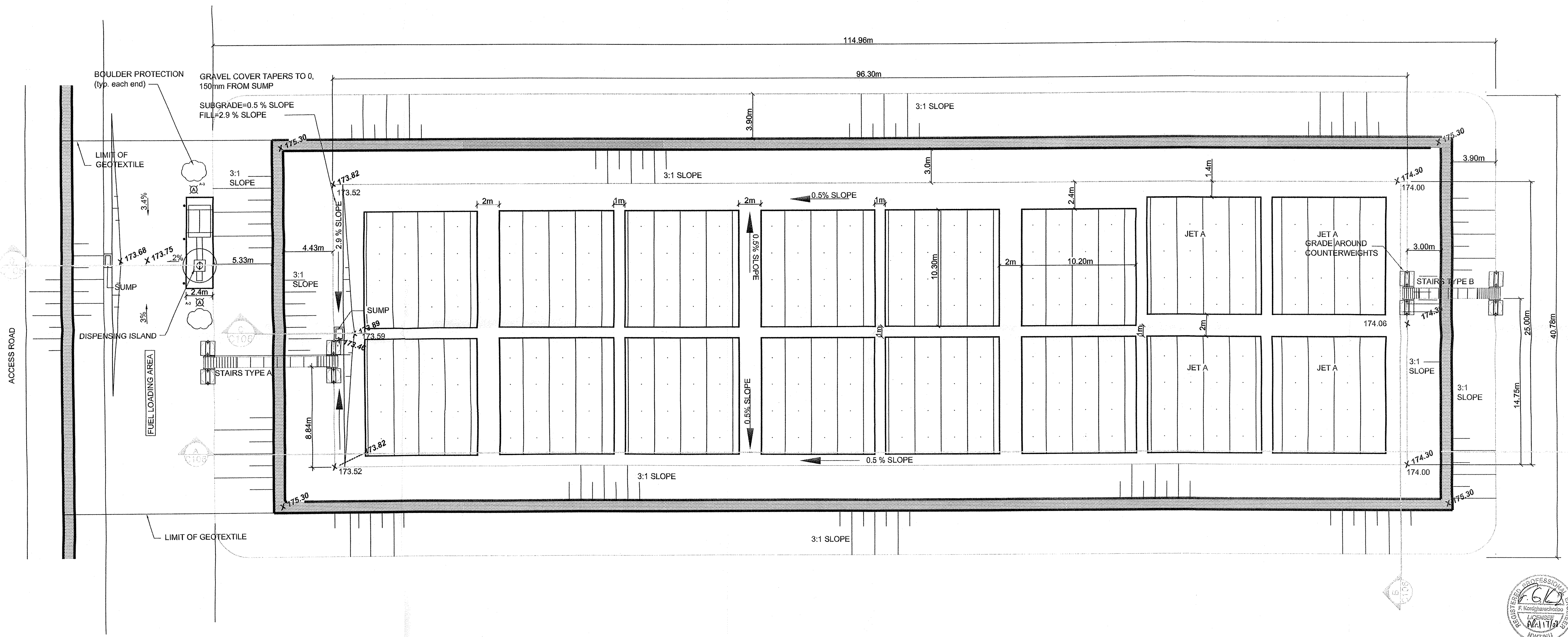
Project

MARY RIVER PROJECT
BAFFINLAND IRON
MINES CORPORATION
BAFFIN ISLAND, NUNAVUT

Drawing

MARY RIVER BULK FUEL
STORAGE FACILITY
PLAN

Date	MARCH 2009	CADD File Number	REPORT/FUEL.FAR
Scale	1:200	Job Number	
Drawn	SO/CM		09-058
Checked	IMK	Drawing Number	
Approved			FIGURE 3



NOTES:

12 DIESEL TANKS 10.2m X 10.3m

4 JET FUEL TANKS 10.2m X 10.3m

CONNECTION PIPES BY OTHERS

SITE BENCH MARK

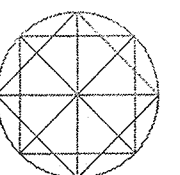
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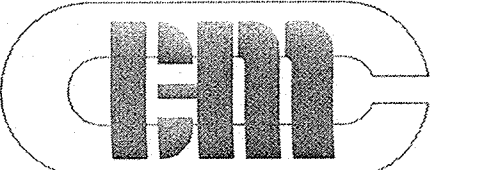
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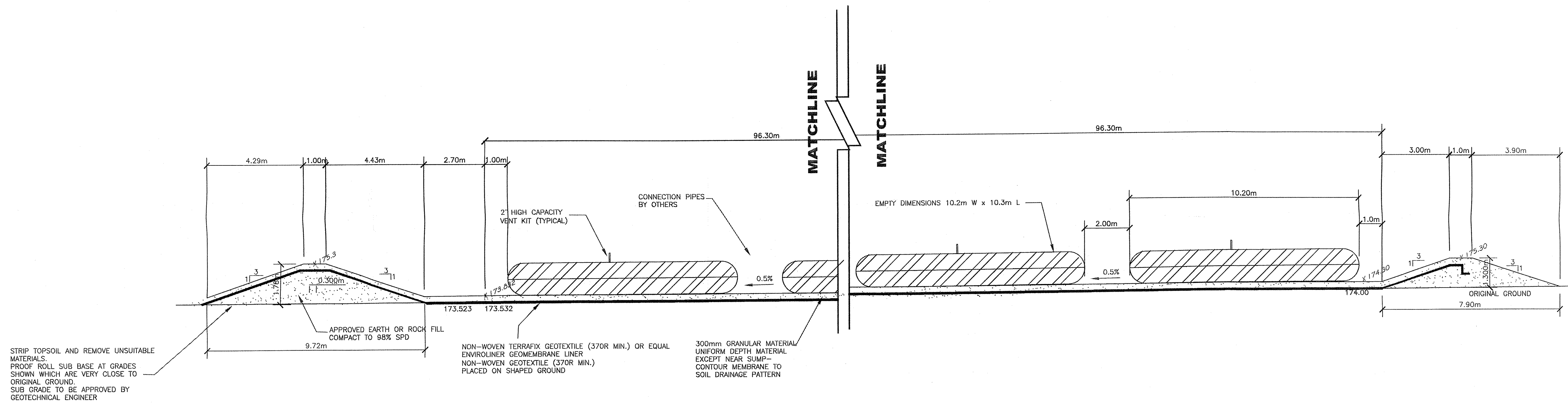
project

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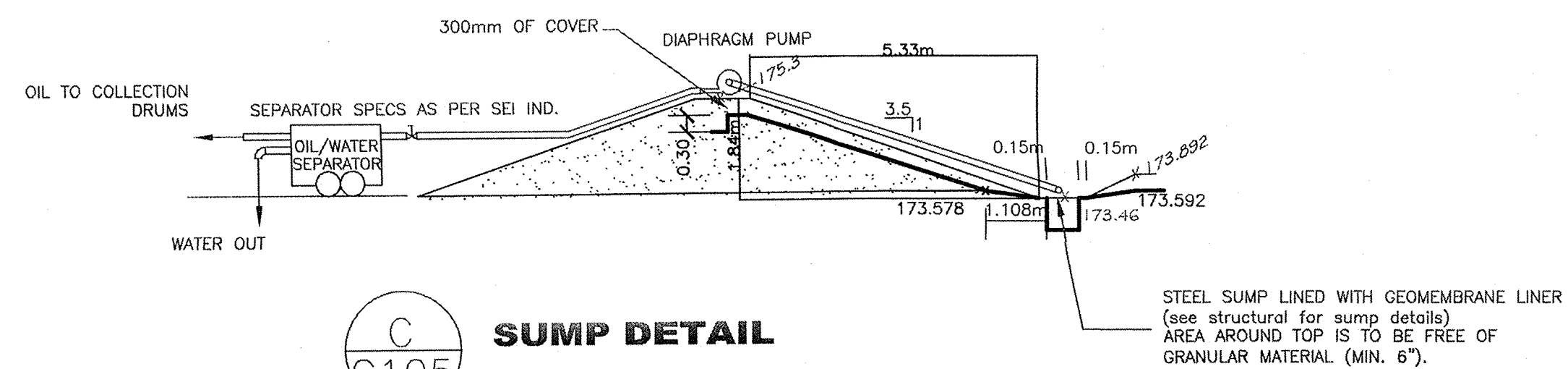
SAFFIN ISLAND, NUNAVUT

MARY RIVER BULK FUEL STORAGE FACILITY SECTION AND DETAILS

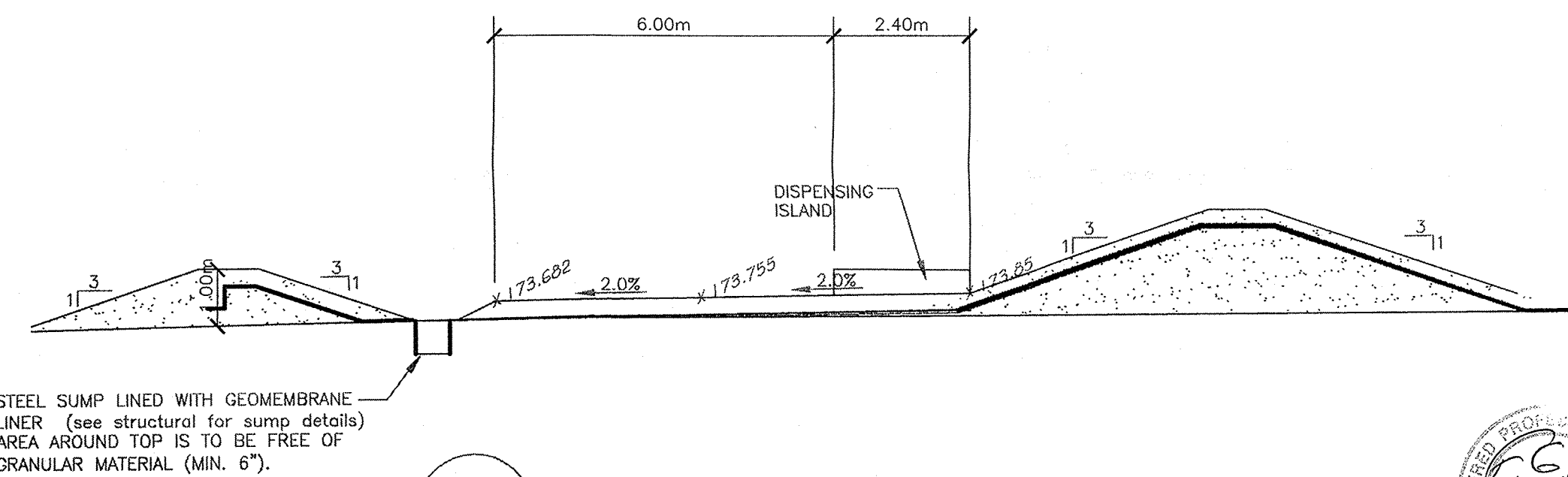
ate	CADD File Number
MARCH 2009	REPORT/FUEL FORM
Scale	Job Number
1:100	09-058
Drawn	
O/C/M	
Checked	Drawing Number
JK	FIGURE 4
Approved	



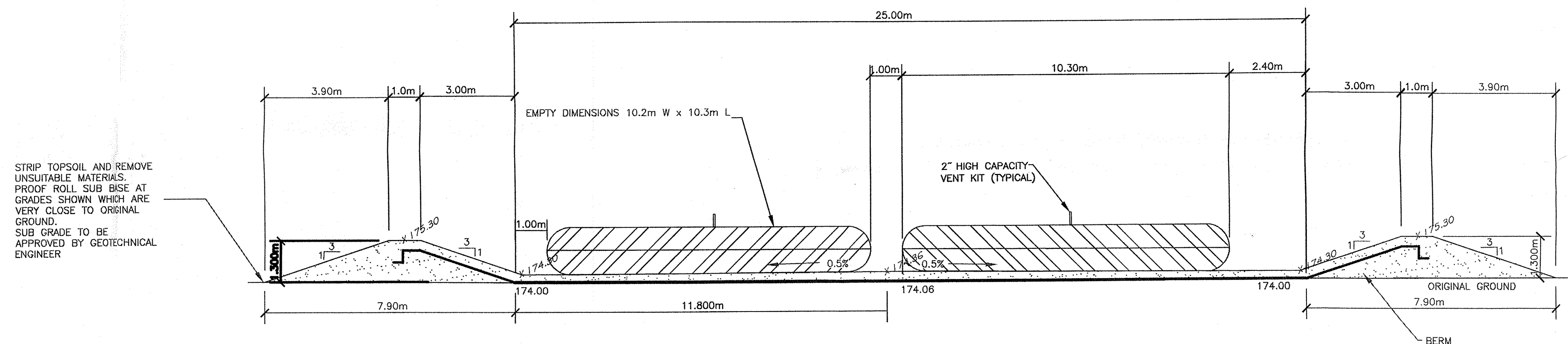
CROSS-SECTION
SCALE 1 TO 100




 **SUMP DETAIL**



FUEL LOADING AREA DETAIL



 **CROSS-SECTION**
SCALE 1 TO 100

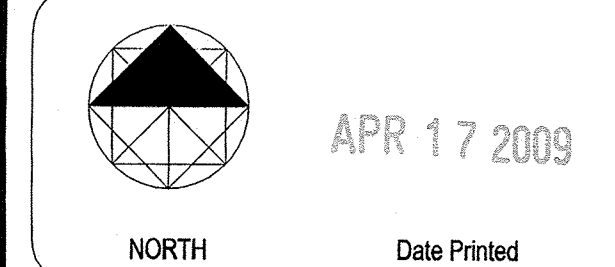


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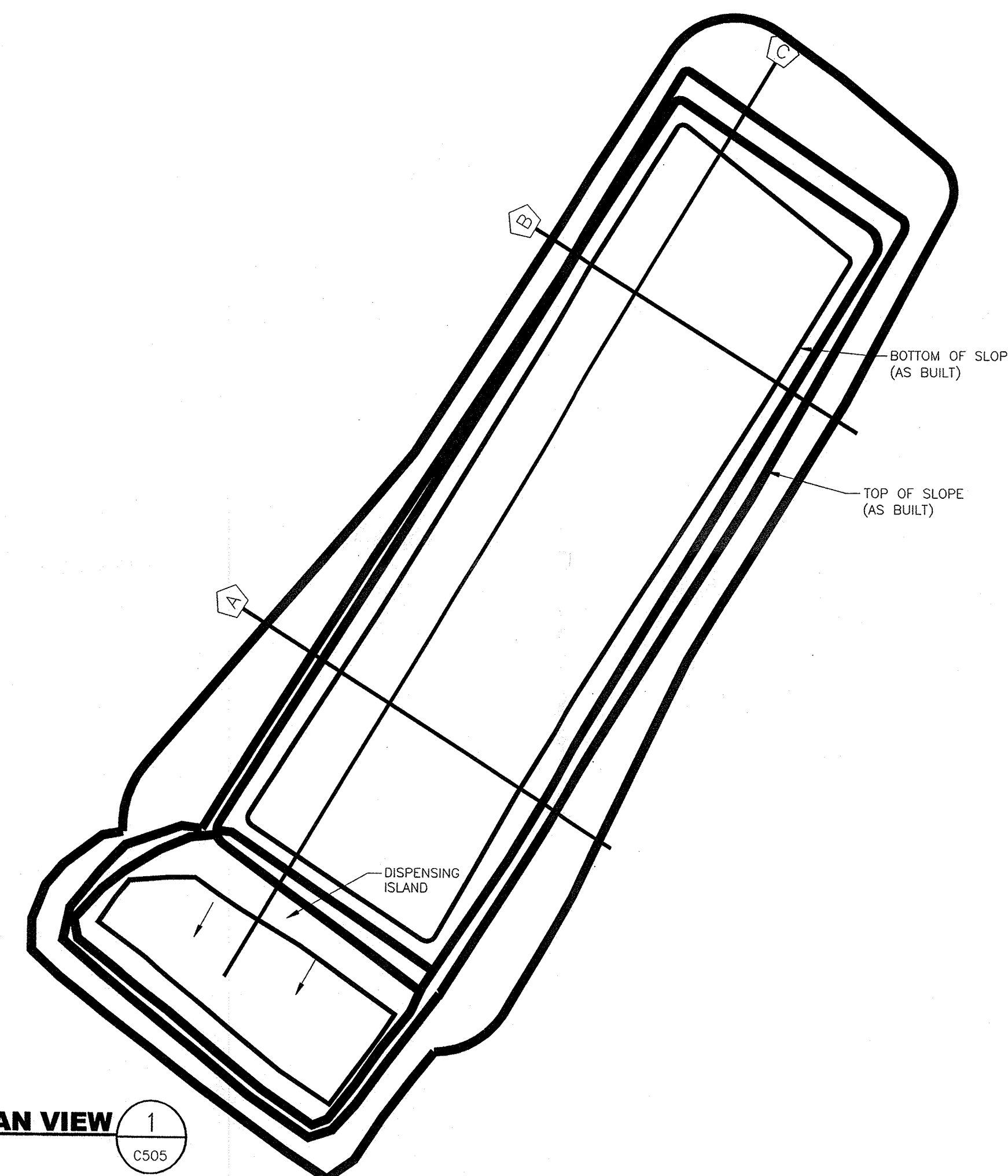
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MARY RIVER BULK FUEL
STORAGE FACILITY
AS-CONSTRUCTED DRAWING

Date MARCH 2009	CADD File Number REPORT/FUEL FARM/
Scale AS NOTED	Job Number 09-058
Drawn S.S.	Drawing Number FIGURE 5
Checked CHECKED	
Approved APPROVED	

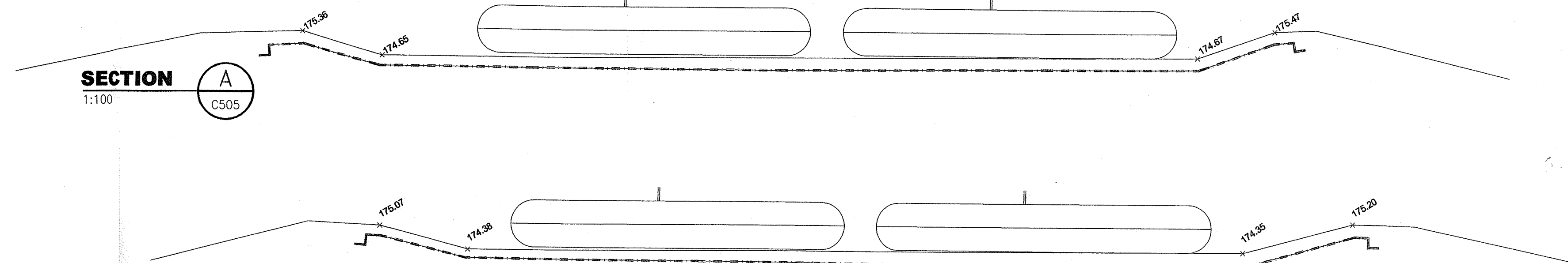


FUEL FARM B PLAN VIEW

1:500

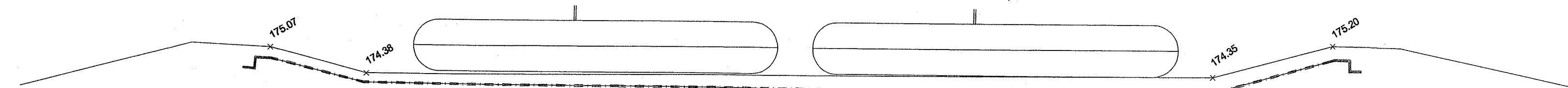
SECTION A

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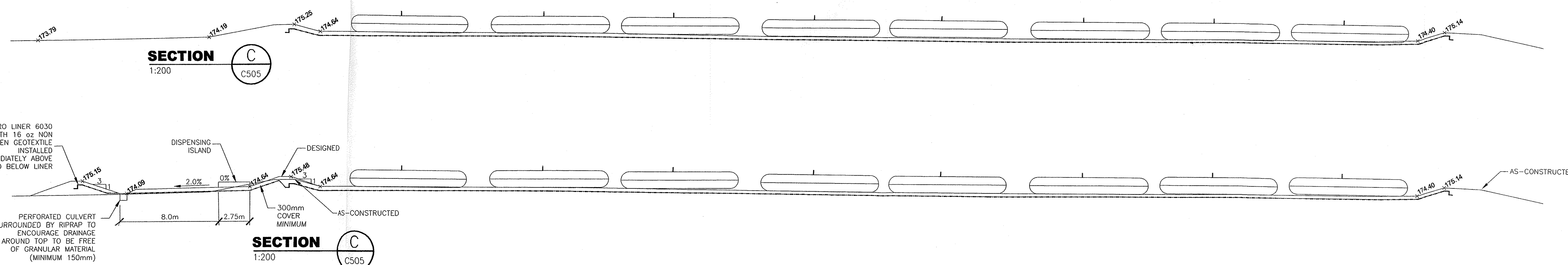
SECTION B

1:100



SECTION C

1:200



SECTION C

1:200