



**N.G.C.C. Amundsen**

**Ultrasonic Thickness Measurement Report - December 2017**

**Prepared for Verreault Navigation Inc.**

**by**

**Inspection PGL**

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# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

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## Supporting Documents



LISTE DES ACRONYMES / ACRONYMS LIST

AB	Above Baseline
ACC	ACComodation
ASM	Adjacent Structural Members
BB	Bulb Bar
BF	Bilge Floor
BG	Bottom Girder
BH	BreastHook
BHD	BulkHead
BK	Bilge Keel
BKT	BrackeT
BL	Bottom Longitudinal
BT	Bottom Transversal
BTM	BoTtoM
BWT	Ballast Water Tank
CL	CenterLine
COT	Cargo Oil Tank
CTC	Ciment Tank Compartment
DB	Deck Beam
DD	Dry Dock
DGF	Deck Girder Flange
DGW	Deck Girder Web
DL	Deck Longitudinal
DN	Diameter Nominal
DNW	DownNWard
DTF	Deck Transverse Flange
DTS	Deck Transverse Stiffener
DTW	Deck Transverse Web
ECBWT	Empty Compartment Ballast Water Tank
ER	Engine Room
FF	Face Flat
FL	FLoor
FLG	FLanGe
FR	FRame
FS	Floor Stiffener
FWD	ForWarD
GS	Girder Stiffener
IB	InBoard
IBL	Inner Bottom Longitudinal
IBP	Inner Bottom Plating
IBT	Inner Bottom Transversal
IWO	In Way Of
LBO	eLBOw
LBP	Longitudinal Bulkhead Plating



LBS	Longitudinal Bulkhead Stiffener
LCBP	Longitudinal Corrugated Bulkhead Plating
LGDL	LonGituDinal
LKG	LooKinG
LO	LOwer
MDL	MiDdLe
MP	Margin Plate
NWT	Non WaterTight
OB	OutBoard
OT	OilTight
PB	Panting Beam
PL	PLate
PS	Port Side
RDG	ReaDinG
RTD	RoTateD
SB	StarBoard Side
SCP	Sea Chest Plating
SF	Shell Frame
SLT	SLightTly
SP	Shell Plating
SPS	Shell Plating Stiffener
SSL	Side Shell Longitudinal
STF	STIFfener
STR	STRinger
TBP	Transverse Bulkhead Plating
TBS	Transverse Bulkhead Stiffener
TFWT	Technical Fresh Water Tank
THK	THicKness
TRSM	TRanSoM
TW	Transverse Web
TWD	ToWarD
UD	Upper Deck
UDP	Upper Deck Plating
UP	UPper
UPW	UPWard
VIC	VICtaulic
VT	Visual Testing
V/V	ValVe
WB	Water Ballast
WS	Web Stiffener
WSH	WaSH
WT	WaterTight



## NOTES GÉNÉRALES / GENERAL NOTES

1. Transverse section belts: in reference to Note 2 of table 3.5.3, the adjacent frames and their end connections have been recorded in the TM form; WB tanks - Void Spaces Internal Structure / Fuel oil tanks - E/R and Flume tanks/DB Nos.1.
2. Transverse section belts - Fr.75 - Fr.105 and Fr.135 - Bottom zone:
  - a) the width of the inner bottom plates are different on Port and Starboard.
3. Transverse section belts - Fr.75 - Fr.105 and Fr.135 - TM2-3: all the internal structures between upper deck and main deck are inside the accommodations.
4. For TM1 (Deck plating): the Upper deck was considered as the strength deck for reporting purpose.
5. Sea inlet box Thruster compt. - Fr.166-167 - Port: the inboard plate that has been installed, seems to be a wrong scantling (1/2" or 12.7mm instead of 5/8" or 15.9mm). This plate are in good condition visually.



Certificate No: MNDE/2016/7690  
Valid From: 11 October 2016  
Date of Issue: 11 January 2017  
Issue Office: Southampton GTC  
LR File Ref: MNDE/41278

## Lloyd's Register Approved Service Supplier

This is to Certify:

***Inspection PGL  
105 Route de St-Paulin  
Les Mechins, QC,  
Canada  
G0J 1T0***

has been assessed and approved in accordance with the requirements of *Lloyd's Register Approval for Thickness Measurement of Hull Structure* as a service supplier for the provision of

### Thickness Measurements of Hull Structure

made in accordance with LR's relevant Rules and Regulations for Classification as amended from time to time. The thickness measurements may be used by the surveyors or shipowners' representatives when making decisions affecting classification, statutory certification or the operation of the ship.

Personnel Authorised to carry out Thickness Measurement Survey's pertinent to this approval are listed on page 2 of 2.

The approval is conditional upon the firm maintaining the audited scheme and notifying Lloyd's Register of any significant changes in personnel, equipment or procedures.

This certificate is issued to the above firm and is valid until the date given below.

Expiry Date: 11 October 2019

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**Philip Leaver**  
Senior Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register group



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*LR File Ref:* MNDE/41278

# Lloyd's Register Approved Service Supplier

## List of Approved Personnel

### Supervisors

Jonathan Lantagne

### Operators

Elvis Poulin

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**Philip Leaver**  
Senior Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register group



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# Thickness Measurement Report

Ship's Name: Amundsen

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## General Particulars

Ship Particulars			
Flag	: Canada	Port of Registry	: Ottawa
ESP Ship	: No	Ship Type	: Other
Rule Length [m]	: 93.52	Gross Tons	: 5,807
Deadweight (t)	: 2,462	Date of Build	: 01 January 1978

Survey Details			
Classification Society	: LR - Lloyd's Register	Place of Measurement	: Les Mechins
First Date of Measurement	: 05 December 2017	Last Date of Measurement	: 22 December 2017
Survey Type	: SSIV	Rule Type	: Non-CSR
Ship Category	: Category 2	Details of Measurement Equipment	: GE DM5 DL #1405837 - Probe DA501EN / DA 512 EN
Job Status	:		

TM Company Details			
Name of Company Performing Thickness Measurement	: Inspection PGL - 8629331 Canada Inc.		
Thickness Measurement Company certified by	: Lloyd's Register	Certificate Number	: MNDE/2016/7690
Certificate Valid From	: 11 October 2016	Certificate Valid To	: 11 October 2019

Authorisation		
TM Operator's Details	Attending Surveyor's Details	Authorising Surveyor's Details
Name: Elvis Poulin	Name: Guy Mercier	Name: Emmanuel Patrouille
Signature: 	Signature:	Signature:
Stamp: 	Stamp:	Stamp:

Notes

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## TM Forms / Sketches



# Thickness Measurement Report

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## Deck Plating - Main Deck Plating TM Forms



# Thickness Measurement Report

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## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Main Deck Plating										
Strake Position :					Upper Deck Plating - Strake A (Stringer strake)										
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading								Mean Diminution (%)	Comments	
					Forward			Aft							
					Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)			
10th Fwd															
9th Fwd															
8th Fwd															
7th Fwd (A12)	SK1	9.5	30	6.7	9.6	0	0		9.6	0	0		0		
6th Fwd (A11)	SK1	9.5	30	6.7	9.1	0.4	4.21		9.3	0.2	2.11		3.16		
5th Fwd (A10)	SK1	9.5	30	6.7	9.7	0	0		9.5	0	0		0		
4th Fwd (A9)	SK1	9.5	30	6.7	9.4	0.1	1.05		9.6	0	0		0.53		
3rd Fwd (A8)	SK1	8.7	30	6.1	8.8	0	0		8.8	0	0		0		
2nd Fwd (A7)	SK1	8.7	30	6.1	8.7	0	0		8.5	0.2	2.3		1.15		
1st Fwd (A6)	SK1	8.7	30	6.1	8.6	0.1	1.15		8.6	0.1	1.15		1.15		
Amidships (A5)	SK1	8.7	30	6.1	8.8	0	0		8.9	0	0		0		
1st Aft (A4)	SK1	8.7	30	6.1	8.9	0	0		8.7	0	0		0		
2nd Aft (A3)	SK1	7.9	30	5.5	7.7	0.2	2.53		7.7	0.2	2.53		2.53		
3rd Aft (A2)	SK1	7.9	30	5.5	7.6	0.3	3.8		7.7	0.2	2.53		3.16		
4th Aft (A1)	SK1	7.9	30	5.5	7.5	0.4	5.06		7.2	0.7	8.86		6.96		
5th Aft															
6th Aft															
7th Aft															
8th Aft															
9th Aft															
10th Aft															

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

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## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Main Deck Plating											
Strake Position :					Upper Deck Plating - Strake A (Stringer strake)											
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Starboard Reading								Mean Diminution (%)	Comments		
					Forward			Aft			Gauged Thickness (mm)	Diminution			Thickness As Renewed (mm)	
					Gauged Thickness (mm)	Diminution (mm) (%)		Gauged Thickness (mm)	Diminution (mm) (%)			Thickness As Renewed (mm)				
10th Fwd																
9th Fwd																
8th Fwd																
7th Fwd (A12)	SK1	9.5	30	6.7	9.3	0.2	2.11		9.6	0	0		1.05			
6th Fwd (A11)	SK1	9.5	30	6.7	9.6	0	0		9.3	0.2	2.11		1.05			
5th Fwd (A10)	SK1	9.5	30	6.7	9.5	0	0		9.6	0	0		0			
4th Fwd (A9)	SK1	9.5	30	6.7	9.6	0	0		9.8	0	0		0			
3rd Fwd (A8)	SK1	8.7	30	6.1	8.9	0	0		8.9	0	0		0			
2nd Fwd (A7)	SK1	8.7	30	6.1	8.5	0.2	2.3		8.8	0	0		1.15			
1st Fwd (A6)	SK1	8.7	30	6.1	8.7	0	0		8.6	0.1	1.15		0.57			
Amidships (A5)	SK1	8.7	30	6.1	8.5	0.2	2.3		8.9	0	0		1.15			
1st Aft (A4)	SK1	8.7	30	6.1	8.8	0	0		8.6	0.1	1.15		0.57			
2nd Aft (A3)	SK1	7.9	30	5.5	7.5	0.4	5.06		7.9	0	0		2.53			
3rd Aft (A2)	SK1	7.9	30	5.5	7.8	0.1	1.27		7.8	0.1	1.27		1.27			
4th Aft (A1)	SK1	7.9	30	5.5	8.4	0	0		7.9	0	0		0			
5th Aft																
6th Aft																
7th Aft																
8th Aft																
9th Aft																
10th Aft																

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Main Deck Plating										
Strake Position :					Upper Deck Plating - Strake B										
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading								Mean Diminution (%)	Comments	
					Forward				Aft						
					Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)			
10th Fwd															
9th Fwd (B17)	SK1	12.7	30	8.9	12.9	0	0		12.8	0	0		0		
8th Fwd (B16)	SK1	12.7	30	8.9	13	0	0		12.7	0	0		0		
7th Fwd (B15a)	SK1	9.5	30	6.7	12.6	0	0		12.7	0	0		0	Port side only	
6th Fwd (B15)	SK1	9.5	30	6.7	9.2	0.3	3.16		9.4	0.1	1.05		2.11		
5th Fwd (B14)	SK1	9.5	30	6.7	9.8	0	0		9.5	0	0		0		
4th Fwd (B13)	SK1	15.9	30	11.1	16.4	0	0		16.2	0	0		0		
3rd Fwd (B12)	SK1	9.5	30	6.7	9.6	0	0		9.7	0	0		0		
2nd Fwd (B11)	SK1	8.7	30	6.1	8.7	0	0		8.8	0	0		0		
1st Fwd															
Amidships															
1st Aft (B8)	SK1	8.7	30	6.1	9	0	0		8.8	0	0		0		
2nd Aft (B7)	SK1	7.9	30	5.5	7.6	0.3	3.8							PS fwd only	
3rd Aft (B6)	SK1	15.9	30	11.1										Starboard side only	
4th Aft (B5)	SK1	7.9	30	5.5					8	0	0			PS aft only	
5th Aft (B4)	SK1	7.9	30	5.5	7.8	0.1	1.27		7.6	0.3	3.8		2.53		
6th Aft (B3)	SK1	12.7	30	8.9										Starboard side only	
7th Aft (B2a)	SK1	12.7	30	8.9	12.6	0.1	0.79		12.5	0.2	1.57		1.18	Port side only	
8th Aft (B2)	SK1	12.7	30	8.9	12.8	0	0		12.9	0	0		0	Port side only	
9th Aft (B1)	SK1	7.9	30	5.5	7.7	0.2	2.53		7.8	0.1	1.27		1.9		
10th Aft (B1a)	SK1	7.9	30	5.5	12.6	0	0		12.8	0	0		0	Port side only	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Main Deck Plating										
Strake Position :					Upper Deck Plating - Strake B										
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Starboard Reading								Mean Diminution (%)	Comments	
					Forward				Aft						
					Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)			
10th Fwd															
9th Fwd (B17)	SK1	12.7	30	8.9	13.1	0	0		13.1	0	0		0		
8th Fwd (B16)	SK1	12.7	30	8.9	13	0	0		12.7	0	0		0		
7th Fwd (B15a)	SK1	9.5	30	6.7											Port side only
6th Fwd (B15)	SK1	9.5	30	6.7	9.4	0.1	1.05		9.5	0	0		0.53		
5th Fwd (B14)	SK1	9.5	30	6.7	9.4	0.1	1.05		9.7	0	0		0.53		
4th Fwd (B13)	SK1	15.9	30	11.1	16.4	0	0		16.3	0	0		0		
3rd Fwd (B12)	SK1	9.5	30	6.7	9.9	0	0		10	0	0		0		
2nd Fwd (B11)	SK1	8.7	30	6.1	8.8	0	0		8.7	0	0		0		
1st Fwd															
Amidships															
1st Aft (B8)	SK1	8.7	30	6.1	8.8	0	0		8.6	0.1	1.15		0.57		
2nd Aft (B7)	SK1	7.9	30	5.5	7.8	0.1	1.27		7.9	0	0		0.63		PS fwd only
3rd Aft (B6)	SK1	15.9	30	11.1	15.9	0	0		15.9	0	0		0		Starboard side only
4th Aft (B5)	SK1	7.9	30	5.5	8	0	0		7.8	0.1	1.27		0.63		PS aft only
5th Aft (B4)	SK1	7.9	30	5.5	7.6	0.3	3.8		7.9	0	0		1.9		
6th Aft (B3)	SK1	12.7	30	8.9	12.8	0	0		12.7	0	0		0		Starboard side only
7th Aft (B2a)	SK1	12.7	30	8.9											Port side only
8th Aft (B2)	SK1	12.7	30	8.9											Port side only
9th Aft (B1)	SK1	7.9	30	5.5	8.2	0	0		7.5	0.4	5.06		2.53		
10th Aft (B1a)	SK1	7.9	30	5.5											Port side only

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Main Deck Plating										
Strake Position :					Upper Deck Plating - Strake C										
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading								Mean Diminution (%)	Comments	
					Forward			Aft			Gauged Thickness (mm)	Mean Diminution (%)			
					Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm) (%)					Thickness As Renewed (mm)
10th Fwd															
9th Fwd															
8th Fwd															
7th Fwd															
6th Fwd (C12)	SK1	9.5	30	6.7	9.5	0	0		9.4	0.1	1.05		0.53		
5th Fwd (C11)	SK1	9.5	30	6.7	9.6	0	0		9.9	0	0		0		
4th Fwd (C10)	SK1	9.5	30	6.7	9.5	0	0		9.6	0	0		0		
3rd Fwd (C9)	SK1	9.5	30	6.7	9.8	0	0		9.2	0.3	3.16		1.58		
2nd Fwd															
1st Fwd															
Amidships															
1st Aft															
2nd Aft															
3rd Aft (C3)	SK1	7.9	30	5.5	7.9	0	0		8	0	0		0		
4th Aft (C2)	SK1	7.9	30	5.5	8.2	0	0		8.2	0	0		0		
5th Aft (C1)	SK1	12.7	30	8.9	13	0	0		12.9	0	0		0		
6th Aft															
7th Aft															
8th Aft															
9th Aft															
10th Aft															

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Main Deck Plating										
Strake Position :					Upper Deck Plating - Strake C										
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Starboard Reading								Mean Diminution (%)	Comments	
					Forward			Aft							
					Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)			
10th Fwd															
9th Fwd															
8th Fwd															
7th Fwd															
6th Fwd (C12)	SK1	9.5	30	6.7	9.7	0	0		9.5	0	0		0		
5th Fwd (C11)	SK1	9.5	30	6.7	9.4	0.1	1.05		9.7	0	0		0.53		
4th Fwd (C10)	SK1	9.5	30	6.7	9.9	0	0		9.6	0	0		0		
3rd Fwd (C9)	SK1	9.5	30	6.7	9.7	0	0		9.1	0.4	4.21		2.11		
2nd Fwd															
1st Fwd															
Amidships															
1st Aft															
2nd Aft															
3rd Aft (C3)	SK1	7.9	30	5.5	8	0	0		7.8	0.1	1.27		0.63		
4th Aft (C2)	SK1	7.9	30	5.5	7.7	0.2	2.53		7.9	0	0		1.27		
5th Aft (C1)	SK1	12.7	30	8.9	12.7	0	0		12.5	0.2	1.57		0.79		
6th Aft															
7th Aft															
8th Aft															
9th Aft															
10th Aft															

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Main Deck Plating										
Strake Position :					Upper Deck Plating - Strake D										
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading								Mean Diminution (%)	Comments	
					Forward			Aft							
					Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)			
10th Fwd															
9th Fwd															
8th Fwd (D13)	SK1	12.7	30	8.9	13.2	0	0		13	0	0		0		
7th Fwd (D12)	SK1	9.5	30	6.7	9.6	0	0		9.6	0	0		0		
6th Fwd (D11)	SK1	9.5	30	6.7	9.4	0.1	1.05		10.1	0	0		0.53		
5th Fwd (D10)	SK1	9.5	30	6.7	9.5	0	0		9.3	0.2	2.11		1.05		
4th Fwd (D9)	SK1	9.5	30	6.7	9.3	0.2	2.11		9.6	0	0		1.05		
3rd Fwd															
2nd Fwd															
1st Fwd															
Amidships															
1st Aft															
2nd Aft															
3rd Aft (D2)	SK1	7.9	30	5.5	8.3	0	0		8.4	0	0		0		
4th Aft (D1)	SK1	7.9	30	5.5	7.4	0.5	6.33								PS-SB fwd only
5th Aft															
6th Aft															
7th Aft															
8th Aft															
9th Aft															
10th Aft															

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Main Deck Plating										
Strake Position :					Upper Deck Plating - Strake D										
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Starboard Reading								Mean Diminution (%)	Comments	
					Forward			Aft							
					Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)			
10th Fwd															
9th Fwd															
8th Fwd (D13)	SK1	12.7	30	8.9	13.1	0	0		13.3	0	0		0		
7th Fwd (D12)	SK1	9.5	30	6.7	9.6	0	0		9.6	0	0		0		
6th Fwd (D11)	SK1	9.5	30	6.7	10.2	0	0		10.2	0	0		0		
5th Fwd (D10)	SK1	9.5	30	6.7	9.8	0	0		9.5	0	0		0		
4th Fwd (D9)	SK1	9.5	30	6.7	9.9	0	0		9.8	0	0		0		
3rd Fwd															
2nd Fwd															
1st Fwd															
Amidships															
1st Aft															
2nd Aft															
3rd Aft (D2)	SK1	7.9	30	5.5	7.9	0	0		7.9	0	0		0		
4th Aft (D1)	SK1	7.9	30	5.5	7.5	0.4	5.06							PS-SB fwd only	
5th Aft															
6th Aft															
7th Aft															
8th Aft															
9th Aft															
10th Aft															

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Main Deck Plating										
Strake Position :					Upper Deck Plating - Strake E (center strake)										
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading								Mean Diminution (%)	Comments	
					Forward				Aft						
					Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)			
10th Fwd															
9th Fwd															
8th Fwd															
7th Fwd															
6th Fwd															
5th Fwd															
4th Fwd															
3rd Fwd															
2nd Fwd (E5)	SK1	9.5	30	6.7	9.5	0	0		9.5	0	0		0		
1st Fwd (E4)	SK1	12.7	30	8.9	13	0	0		13.3	0	0		0		
Amidships															
1st Aft															
2nd Aft (E2)	SK1	7.9	30	5.5	8.1	0	0		8.2	0	0		0		
3rd Aft (E1)	SK1	7.9	30	5.5	8	0	0		8.2	0	0		0		
4th Aft															
5th Aft															
6th Aft															
7th Aft															
8th Aft															
9th Aft															
10th Aft															

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Main Deck Plating										
Strake Position :					Upper Deck Plating - Strake E (center strake)										
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Starboard Reading								Mean Diminution (%)	Comments	
					Forward			Aft							
					Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)			
10th Fwd															
9th Fwd															
8th Fwd															
7th Fwd															
6th Fwd															
5th Fwd															
4th Fwd															
3rd Fwd															
2nd Fwd (E5)	SK1	9.5	30	6.7	9.5	0	0		9.2	0.3	3.16		1.58		
1st Fwd (E4)	SK1	12.7	30	8.9	13.1	0	0		13.1	0	0		0		
Amidships															
1st Aft															
2nd Aft (E2)	SK1	7.9	30	5.5	8.1	0	0		8.1	0	0		0		
3rd Aft (E1)	SK1	7.9	30	5.5	7.6	0.3	3.8		7.9	0	0		1.9		
4th Aft															
5th Aft															
6th Aft															
7th Aft															
8th Aft															
9th Aft															
10th Aft															

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Main Deck Plating											
Location of Structure :		Main deck - Fore Peak top											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
Deck plate - Reading no.1	SK16	12.7	30	8.9	11.4	1.3	10.24		11.4	1.3	10.24		
Deck plate - Reading no.2	SK16	12.7	30	8.9	12.6	0.1	0.79		12.1	0.6	4.72		
Deck plate - Reading no.3	SK16	12.7	30	8.9	12.7	0	0		13.1	0	0		
Deck plate - Reading no.4	SK16	12.7	30	8.9	11.7	1	7.87		12.3	0.4	3.15		
Deck plate - Reading no.5	SK16	12.7	30	8.9	13.2	0	0		13.1	0	0		
Deck plate - Reading no.6	SK16	12.7	30	8.9	13.1	0	0		12.3	0.4	3.15		
Deck plate - Reading no.7	SK16	12.7	30	8.9	12.3	0.4	3.15		12.3	0.4	3.15		
Deck plate - Reading no.8	SK16	7.9	30	5.5	8.1	0	0		7.8	0.1	1.27		
Deck plate - Reading no.9	SK16	7.9	30	5.5	7.2	0.7	8.86		7.4	0.5	6.33		
Deck plate - Reading no.10	SK16	7.9	30	5.5	7.8	0.1	1.27		8	0	0		
Deck plate - Reading no.11	SK16	7.9	30	5.5	7.8	0.1	1.27		7.8	0.1	1.27		
Deck plate - Reading no.12	SK16	7.9	30	5.5	7.7	0.2	2.53		7.1	0.8	10.13		
Deck plate - Reading no.13	SK16	7.9	30	5.5	7.9	0	0		7.8	0.1	1.27		
Deck plate - Reading no.14	SK16	12.7	30	8.9	13.2	0	0		13.2	0	0		
Deck plate - Reading no.15	SK16	12.7	30	8.9	13.3	0	0		12.3	0.4	3.15		
Deck plate - Reading no.16	SK16	12.7	30	8.9	12.9	0	0		12.4	0.3	2.36		
Deck plate - Reading no.17	SK16	12.7	30	8.9	13	0	0		10.7	2	15.75		
Deck plate - Reading no.18	SK16	12.7	30	8.9	13	0	0		13	0	0		
Deck plate - Reading no.19	SK16	12.7	30	8.9	12.5	0.2	1.57		13	0	0		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Main Deck Plating											
Location of Structure :		Main deck - After Peak top											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
Deck plate - Reading no.1	SK9	11.9	30	8.3	12	0	0		11.5	0.4	3.36		
Deck plate - Reading no.2	SK9	11.9	30	8.3	10.5	1.4	11.76		10.9	1	8.4		
Deck plate - Reading no.3	SK9	11.9	30	8.3	11.8	0.1	0.84					Port side only	
Deck plate - Reading no.4	SK9	11.9	30	8.3					11.1	0.8	6.72	Starboard side only	
Deck plate - Reading no.5	SK9	11.9	30	8.3	11.2	0.7	5.88		10.6	1.3	10.92		
Deck plate - Reading no.6	SK9	11.9	30	8.3	11.8	0.1	0.84		11.7	0.2	1.68		
Deck plate - Reading no.7	SK9	11.9	30	8.3	11.8	0.1	0.84		12.1	0	0		
Deck plate - Reading no.8	SK9	11.9	30	8.3	11.7	0.2	1.68		12.5	0	0		
Deck plate - Reading no.9	SK9	11.9	30	8.3	10.8	1.1	9.24		10.9	1	8.4		
Deck plate - Reading no.10	SK9	11.9	30	8.3	11.8	0.1	0.84		11.7	0.2	1.68		
Deck plate - Reading no.11	SK9	11.9	30	8.3	12.4	0	0		12	0	0		
Deck plate - Reading no.12	SK9	11.9	30	8.3	12.2	0	0		11.4	0.5	4.2		
Deck plate - Reading no.13	SK9	11.9	30	8.3	11.5	0.4	3.36		11.1	0.8	6.72		
Deck plate - Reading no.14	SK9	11.9	30	8.3	11.9	0	0		11.8	0.1	0.84		
Deck plate - Reading no.15	SK9	11.9	30	8.3	12.4	0	0		12	0	0		
Deck plate - Reading no.16	SK9	11.9	30	8.3	10.7	1.2	10.08		11.8	0.1	0.84		
Deck plate - Reading no.17	SK9	11.9	30	8.3	11.2	0.7	5.88		11	0.9	7.56		
Deck plate - Reading no.18	SK9	7.9	30	5.5	7.8	0.1	1.27		7.7	0.2	2.53		
Deck plate - Reading no.19	SK9	7.9	30	5.5	8.1	0	0		6.9	1	12.66		
Deck plate - Reading no.20	SK9	7.9	30	5.5	7.3	0.6	7.59		6.9	1	12.66		
Deck plate - Reading no.21	SK9	11.9	30	8.3	11.3	0.6	5.04		11.3	0.6	5.04		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





# Thickness Measurement Report

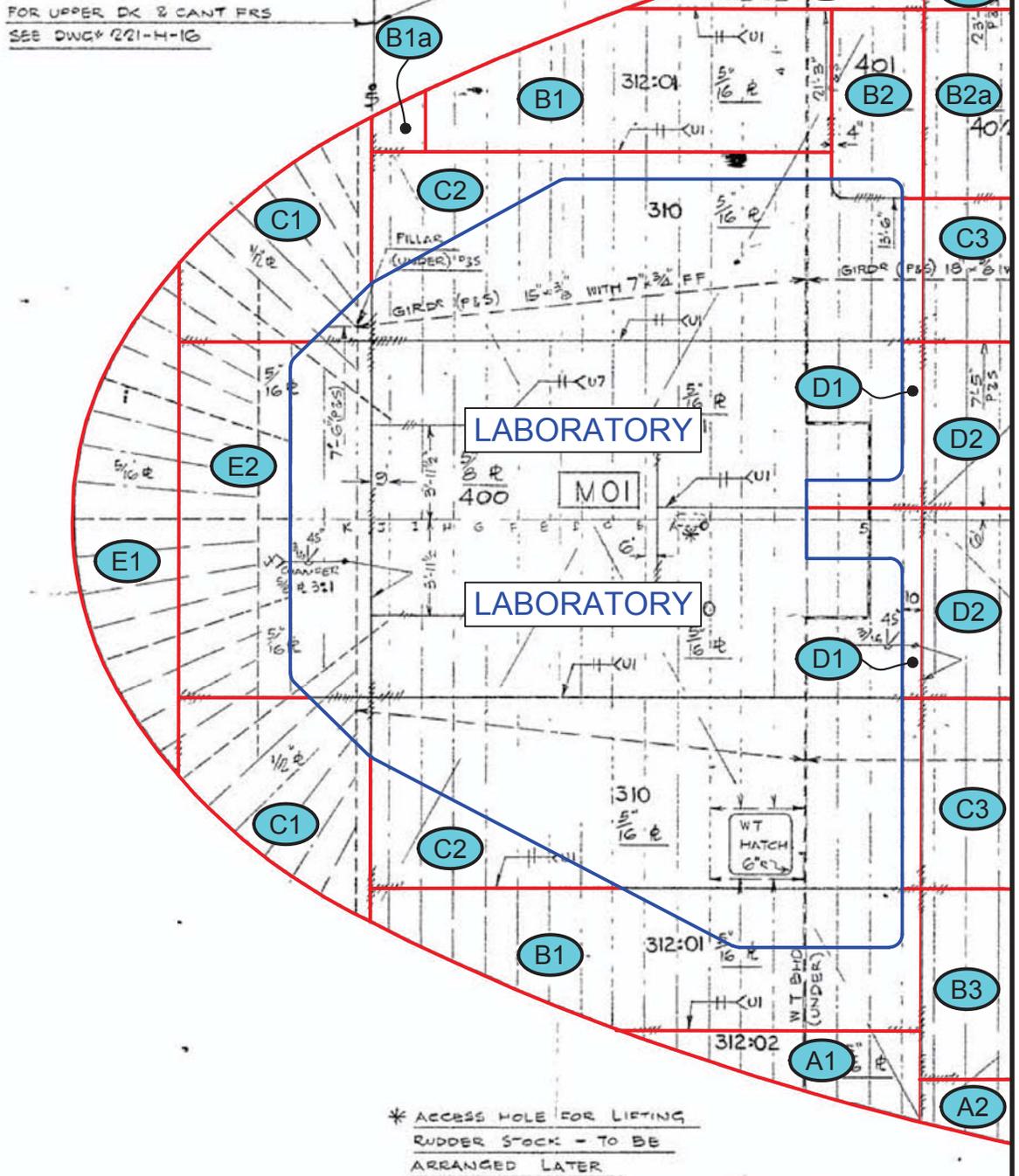
Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## Deck Plating - Main Deck Plating TM Sketches

FOR UPPER DK & CANT FRG  
SEE DWG# 221-H-16



Projet / Project  
N.G.C.C. Amundsen

Titre / Title  
Plaques du pont supérieur (Upper deck) - SK1

Client / Customer  
Travaux Publics et Services gouvernementaux Canada



Préparé par / Prepared by  
Elvis Poulin

Date  
2017/12/13

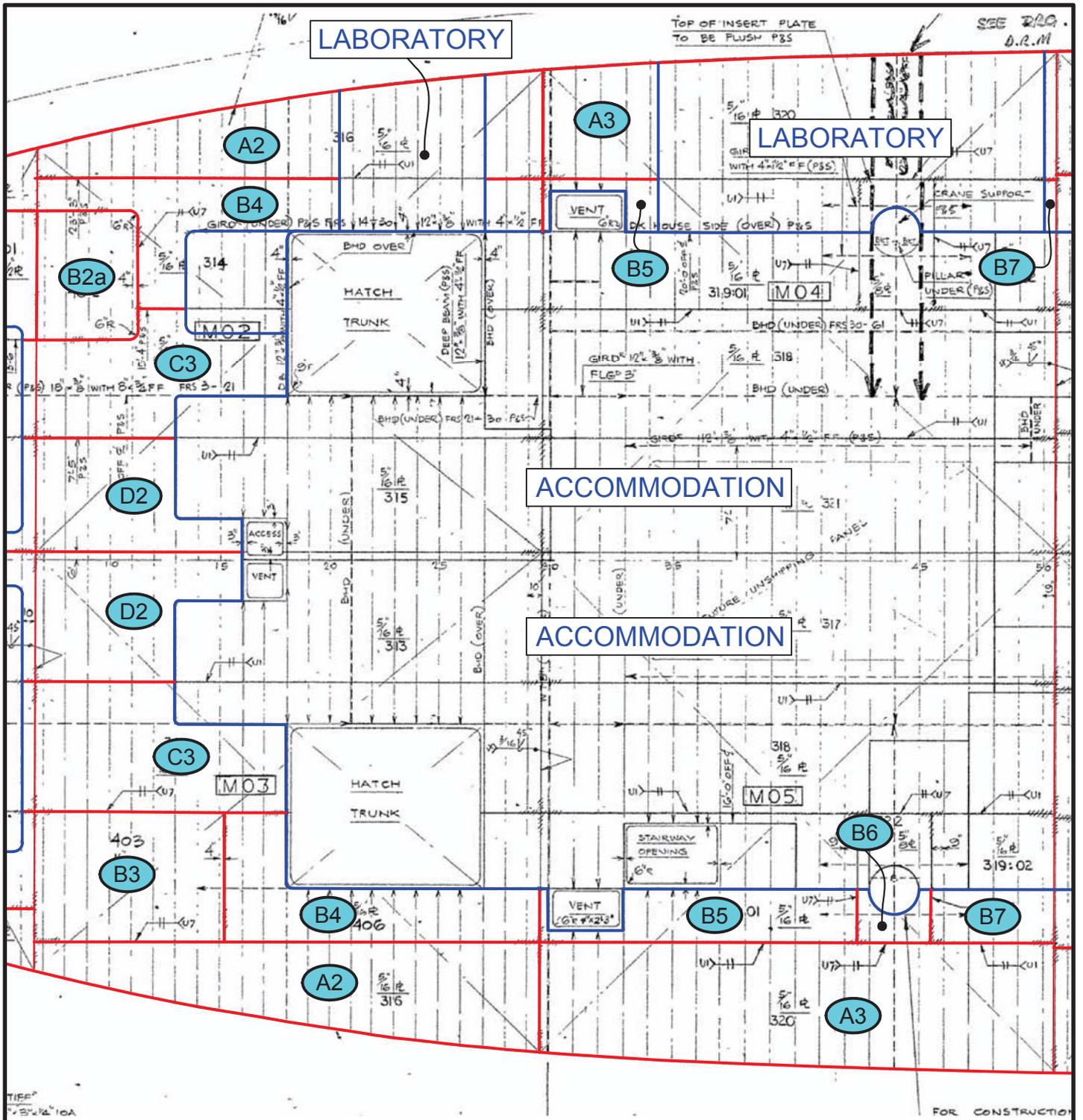
Echelle / Scale  
Non à l'échelle

Feuille / Sheet #  
1 de 6

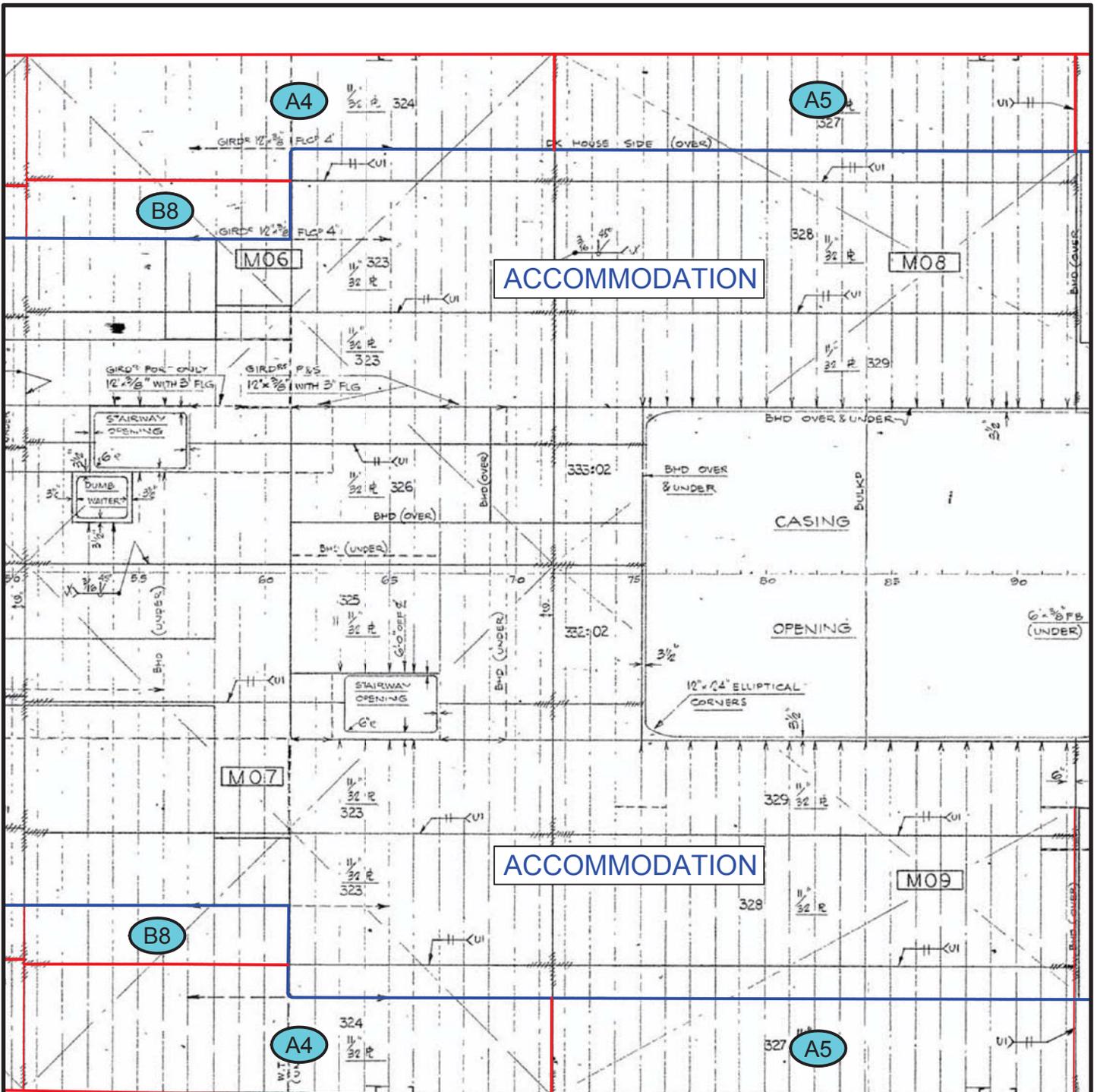
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Format / Size  
Ansi A (V)

Rév. / Rev. #  
0



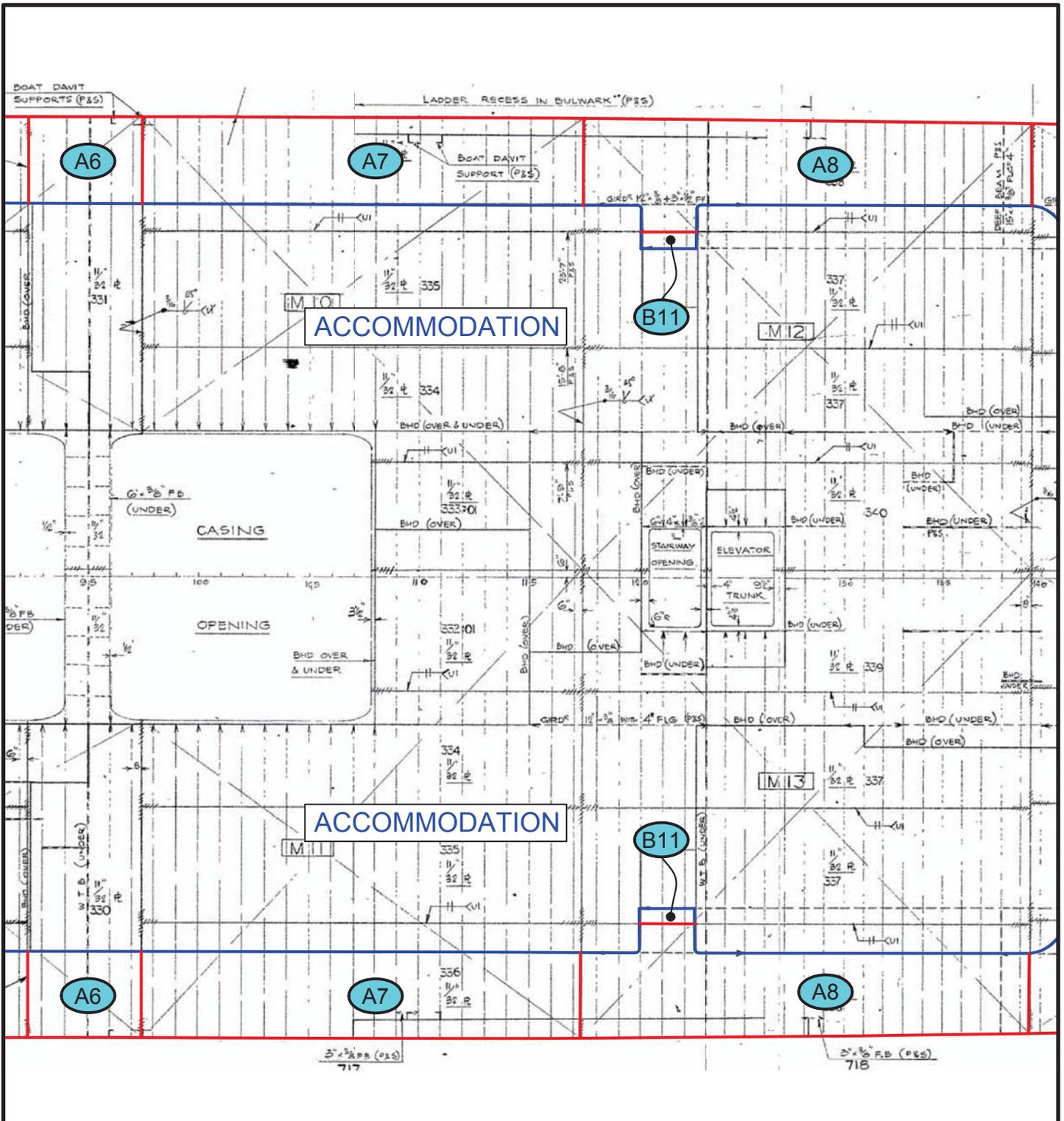
Projet / Project N.G.C.C. Amundsen				
Titre / Title Plaques du pont supérieur (Upper deck) - SK1				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Elvis Poulin	Date 2017/12/13	Echelle / Scale Non à l'échelle	Feuille / Sheet # 2 de 6	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_upperdeck_Amundsen_20171213.dwg			Rév. / Rev. # 0	



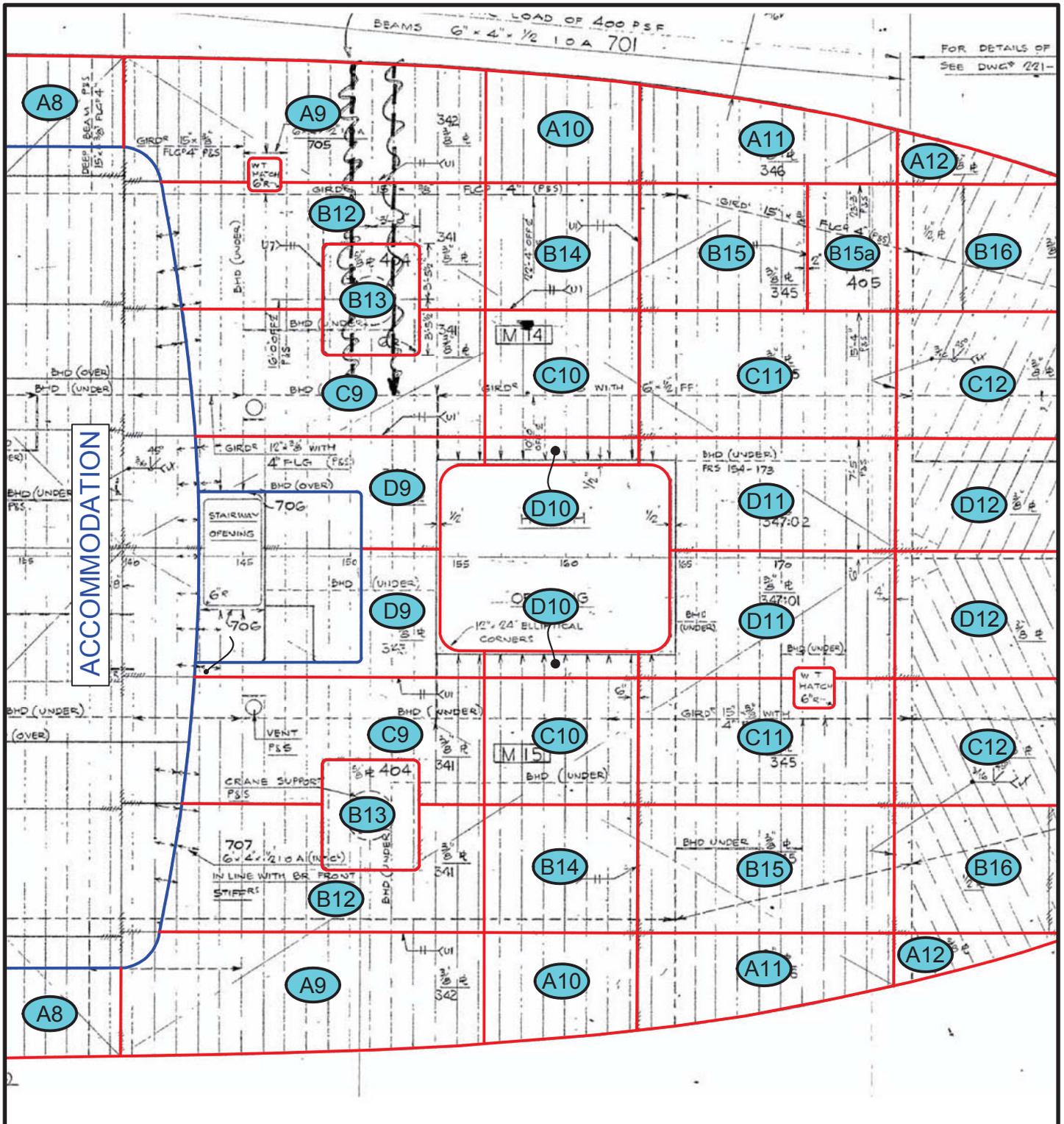
SECTION DETAILS TWO CRANES  
221-H-63

Projet / Project		N.G.C.C. Amundsen	
Titre / Title		Plaques du pont supérieur (Upper deck) - SK1	
Client / Customer		Travaux Publics et Services gouvernementaux Canada	
Préparé par / Prepared by	Date	Echelle / Scale	Feuille / Sheet #
Elvis Poulin	2017/12/13	Non à l'échelle	3 de 6
Dessin / Drawing #		Rév. / Rev. #	
PGL-131-2017-A_utm report_upperdeck_Amundsen_20171213.dwg		0	



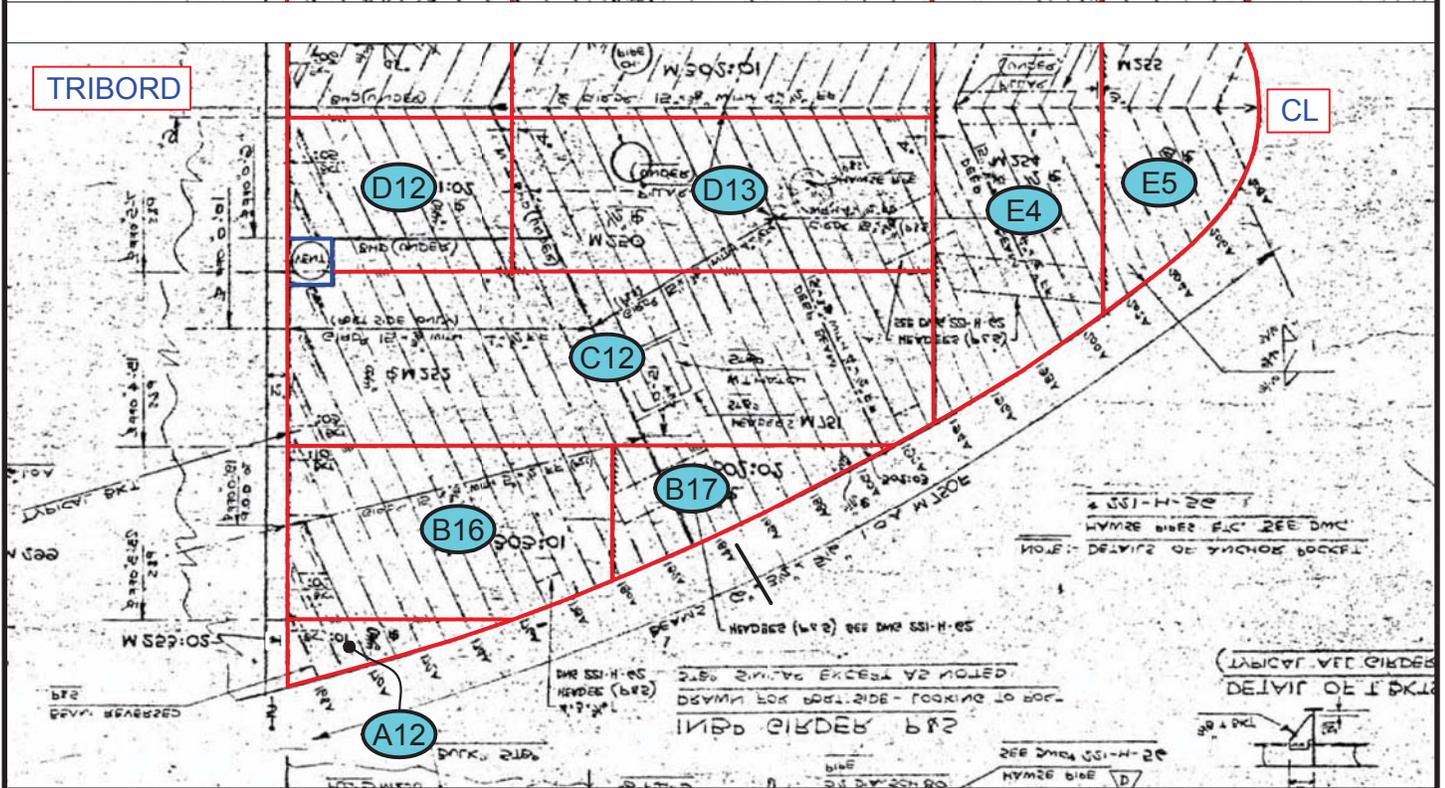
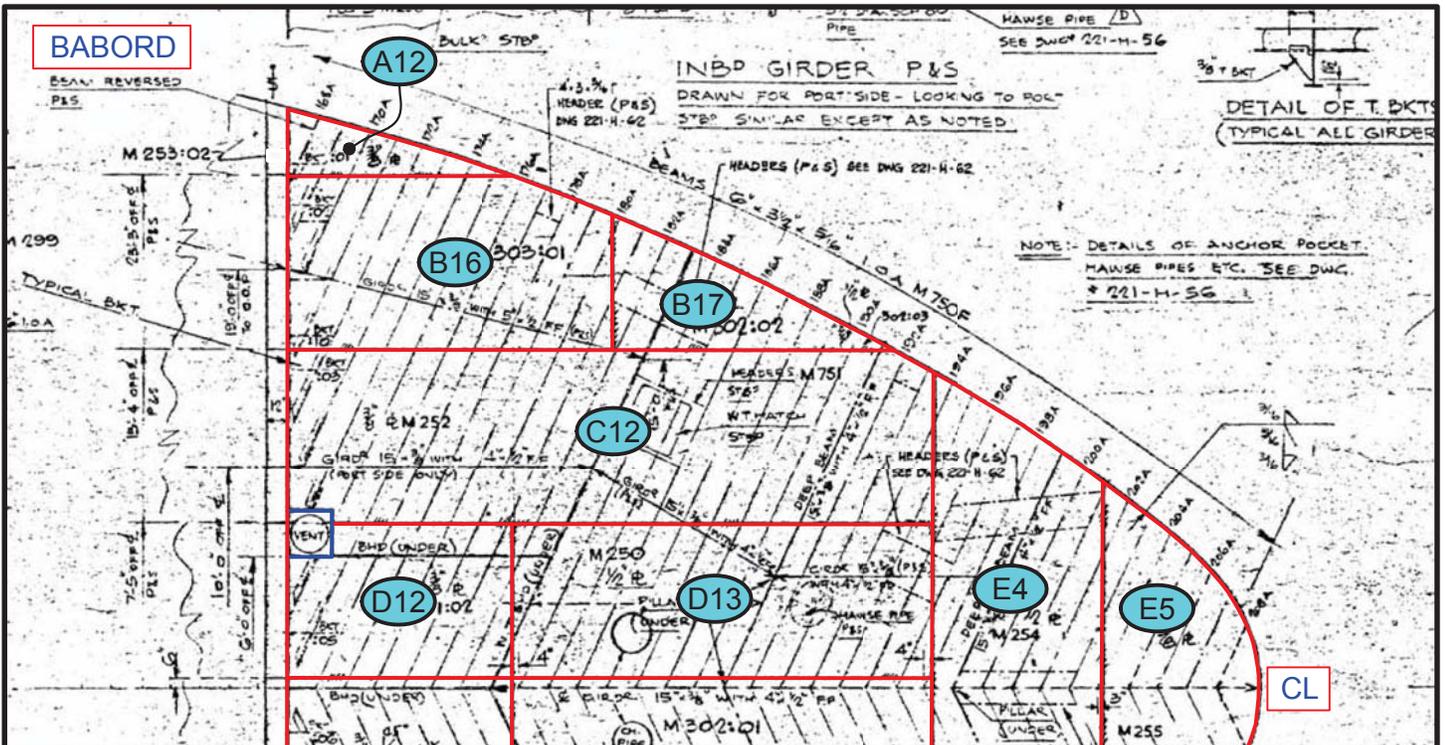


Projet / Project N.G.C.C. Amundsen				
Titre / Title Plaques du pont supérieur (Upper deck) - SK1				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Elvis Poulin	Date 2017/12/13	Echelle / Scale Non à l'échelle	Feuille / Sheet # 4 de 6	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_upperdeck_Amundsen_20171213.dwg			Rév. / Rev. # 0	

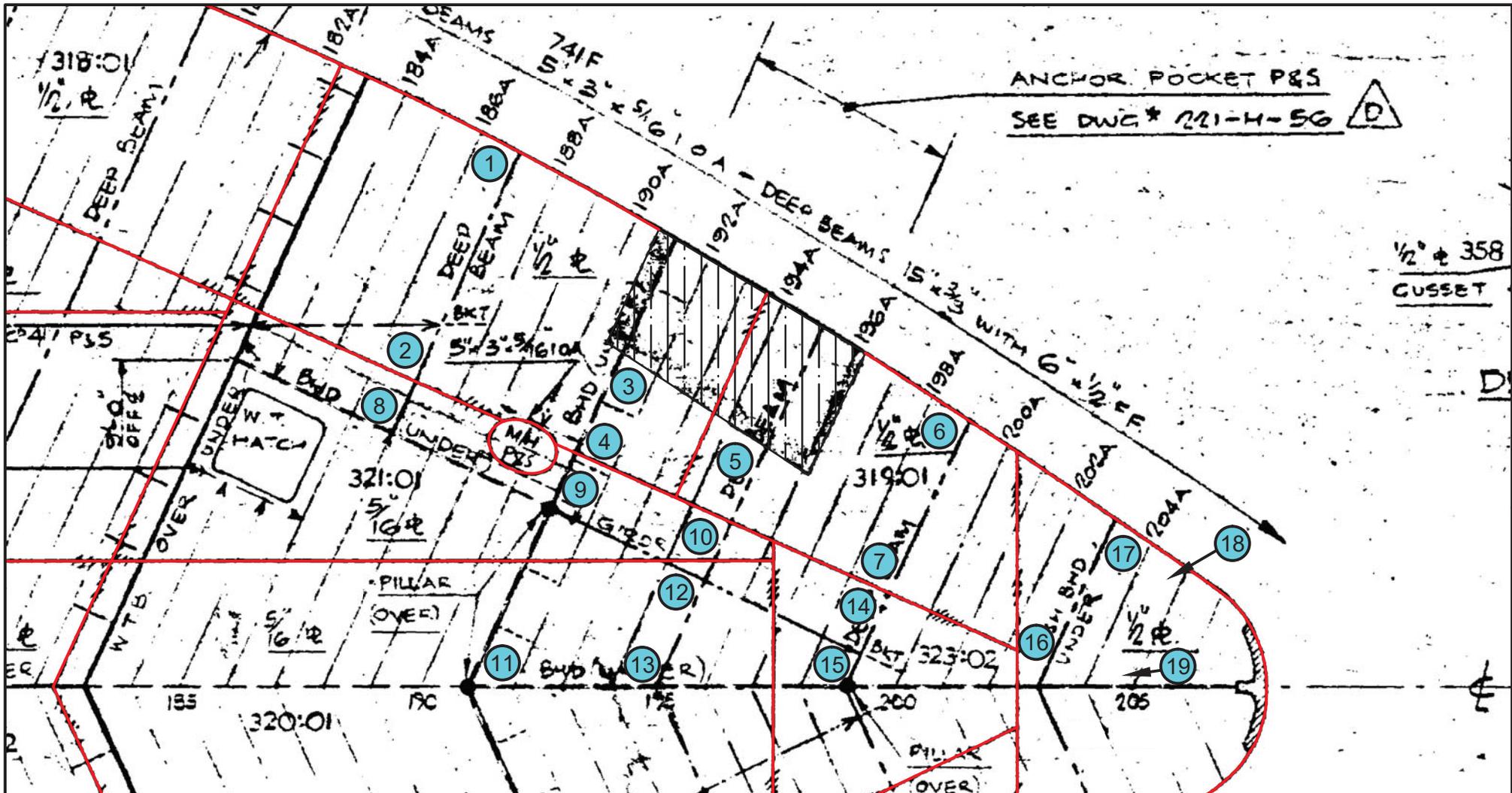


Projet / Project		N.G.C.C. Amundsen	
Titre / Title		Plaques du pont supérieur (Upper deck) - SK1	
Client / Customer		Travaux Publics et Services gouvernementaux Canada	
Préparé par / Prepared by	Date	Echelle / Scale	Feuille / Sheet #
Elvis Poulin	2017/12/13	Non à l'échelle	5 de 6
Dessin / Drawing #		Rév. / Rev. #	
PGL-131-2017-A_utm report_upperdeck_Amundsen_20171213.dwg		0	





Projet / Project N.G.C.C. Amundsen				
Titre / Title Plaques du pont supérieur (Upper deck) - SK1				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Elvis Poulin	Date 2017/12/13	Echelle / Scale Non à l'échelle	Feuille / Sheet # 6 de 6	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_upperdeck_Amundsen_20171213.dwg			Rév. / Rev. # 0	



Projet / Project	
N.G.C.C. Amundsen	
Titre / Title	
Plaques plafond Coqueron avant - Pont Principal (Main deck - Fore peak) - SK16	
Client / Customer	
Travaux Publics et Services gouvernementaux Canada	
Préparé par / Prepared by	Date
Annie Truchon	2018/01/04
Dessin / Drawing #	
PGL-131-2017-A_utm report_forepeak_Amundsen_20180104.dwg	

Echelle / Scale
Non à l'échelle
Feuille / Sheet #
1 de 1
Format / Size
Ansi A (H)



Rév. / Rev. #
0





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## Transverse Sections - Transverse Section No. 1

### TM Forms





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :		No. 1													
Zone :		Neutral Axis Zone													
Frame No. :		Frame No. 75													
Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
								(mm)	(%)			(mm)	(%)		
FO tank ER	1st below sheer strake (G4)	SK2	38.1	30	26.7	915	35	3.1	8.14		36.3	1.8	4.72		Upper RDG
FO tank ER	1st below sheer strake (G4)	SK2	38.1	30	26.7	915	35.9	2.2	5.77		36.7	1.4	3.67		Lower RDG
FO tank ER	2nd below sheer strake (F4)	SK2	38.1	30	26.7	840	37.5	0.6	1.57		36.6	1.5	3.94		Upper RDG
FO tank ER	2nd below sheer strake (F4)	SK2	38.1	30	26.7	840	37.5	0.6	1.57		36.5	1.6	4.2		Lower RDG
FO tank ER	STR D (web) - Reading no.38	SK13	12.7	25	9.5	460	12.3	0.4	3.15		12.9	0	0		
FO tank ER	STR D (FLG) - Reading no.38	SK13	19.1	25	14.3	100	18.9	0.2	1.05		19	0.1	0.52		
FO tank ER	LBP - reading no.40	SK13	7.9	30	5.5	1153	7.9	0	0		7.8	0.1	1.27		
FO tank ER	LBP - reading no.41	SK13	7.9	30	5.5	580	7.9	0	0		7.9	0	0		
FO tank ER	17' Flat - OB RDG no.42	SK13	11.9	25	8.9	785	11.9	0	0		11.9	0	0		
FO tank ER	17' Flat - IB RDG no.43	SK13	11.9	25	8.9	785	12	0	0		11.9	0	0		
FO tank ER	Longt STF IB (web) - RDG no.41	SK13	7.9	25	5.9	100	7.9	0	0		8	0	0		
FO tank ER	Longt STF IB (FLG) - RDG no.41	SK13	7.9	25	5.9	90	7.8	0.1	1.27		7.8	0.1	1.27		
FO tank ER	Longt STF OB (web) -RDG no.41a	SK13	7.9	25	5.9	100	7.9	0	0		8	0	0		
FO tank ER	Longt STF IB (FLG) -RDG no.41a	SK13	7.9	25	5.9	90	7.8	0.1	1.27		7.8	0.1	1.27		
FO tank ER	STR C (web) - Reading no.45	SK13	12.7	25	9.5	455	12.8	0	0		12.6	0.1	0.79		
FO tank ER	STR C (FLG) - Reading no.45	SK13	19.1	25	14.3	100	18.8	0.3	1.57		19	0.1	0.52		
FO tank ER	STR B (web) - Reading no.46	SK13	12.7	25	9.5	455	13	0	0		12.8	0	0		
FO tank ER	STR B (FLG) - Reading no.46	SK13	19.1	25	14.3	100	19	0.1	0.52		18.9	0.2	1.05		
FO tank ER	LBP - reading no.48	SK13	7.9	30	5.5	1820	7.8	0.1	1.27		7.9	0	0		
FO tank ER	LBP - reading no.49	SK13	7.9	30	5.5	915	7.8	0.1	1.27		8	0	0		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :		No. 1													
Zone :		Bottom Zone													
Frame No. :		Frame No. 75													
Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
								(mm)	(%)			(mm)	(%)		
FO tank ER	3rd below sheer strake (E6)	SK2	31.8	30	22.3	930	30.7	1.1	3.46		32.2	0	0		Upper RDG
FO tank ER	3rd below sheer strake (E6)	SK2	31.8	30	22.3	930	31.8	0	0		31.7	0.1	0.31		Lower RDG
No.3 DB FO	4th below sheer strake (D4)	SK2	25.4	30	17.8	1035	25.2	0.2	0.79		25	0.4	1.57		OB RDG
No.3 DB FO	4th below sheer strake (D4)	SK2	25.4	30	17.8	1035	25.4	0	0		25.1	0.3	1.18		IB RDG
No.3 DB FO	5th below sheer strake (C6)	SK2	19.1	30	13.4	950	18.4	0.7	3.66		18	1.1	5.76		OB RDG
No.3 DB FO	5th below sheer strake (C6)	SK2	19.1	30	13.4	950	17.1	2	10.47		18.3	0.8	4.19		IB RDG
No.3 DB FO	6th below sheer strake (B4)	SK2	19.1	30	13.4	1000	17.4	1.7	8.9		18.4	0.7	3.66		OB RDG
No.3 DB FO	6th below sheer strake (B4)	SK2	19.1	30	13.4	1000	18.4	0.7	3.66		18.4	0.7	3.66		IB RDG
No.3 DB FO	7th below sheer strake (A4)	SK2	19.1	30	13.4	1000	18.3	0.8	4.19		18	1.1	5.76		OB RDG
No.3 DB FO	7th below sheer strake (A4)	SK2	19.1	30	13.4	1000	19.8	0	0		17.8	1.3	6.81		IB RDG
No.3 DB FO	Keel strake (K5)	SK2	19.1	30	13.4	680	18.8	0.3	1.57		16.8	2.3	12.04		
FO tank ER	STR A (web) - Reading no.47	SK13	12.7	25	9.5	455	12.7	0	0		13	0	0		
FO tank ER	STR A (FLG) - Reading no.47	SK13	19.1	25	14.3	100	19.1	0	0		18.9	0.2	1.05		
FO tank ER	LBP - reading no.50	SK13	7.9	30	5.5	915	7.7	0.2	2.53		8	0	0		
No.3 DB FO	IBP - STR strake - RDG 51	SK13	9.5	30	6.7	935	9.4	0.1	1.05						Port side only
No.3 DB FO	IBP - STR strake - RDG 51	SK13	9.5	30	6.7	1005					9.4	0.1	1.05		Starboard side only
No.3 DB FO	IBP - STR strake - RDG 52	SK13	9.5	30	6.7	935	9.5	0	0						Port side only
No.3 DB FO	IBP - STR strake - RDG 52	SK13	9.5	30	6.7	1005					9.6	0	0		Starboard side only
No.3 DB FO	IBP - 1st strake IB - RDG 53	SK13	9.5	30	6.7	1190	9.5	0	0						Port side only
No.3 DB FO	IBP - 1st strake IB - RDG 53	SK13	9.5	30	6.7	1040					9.2	0.3	3.16		Starboard side only
No.3 DB FO	IBP - 1st strake IB - RDG 54	SK13	9.5	30	6.7	1190	9.5	0	0						Port side only

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :		No. 1														
Zone :		Bottom Zone														
Frame No. :		Frame No. 75														
Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments	
							Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)		
								(mm)	(%)			(mm)	(%)			
No.3 DB FO	IBP - 1st strake IB - RDG 54	SK13	9.5	30	6.7	1040						9.2	0.3	3.16		Starboard side only
No.3 DB FO	IBP - 2nd strake IB - RDG 55	SK13	9.5	30	6.7	1190	9.8	0	0							Port side only
No.3 DB FO	IBP - 2nd strake IB - RDG 55	SK13	9.5	30	6.7	1050						9.2	0.3	3.16		Starboard side only
No.3 DB FO	IBP - 2nd strake IB - RDG 56	SK13	9.5	30	6.7	1190	9.7	0	0							Port side only
No.3 DB FO	IBP - 2nd strake IB - RDG 56	SK13	9.5	30	6.7	1050						9.1	0.4	4.21		Starboard side only
No.3 DB FO	IBP - 3rd strake IB - RDG 57	SK13	9.5	30	6.7	1025	9.1	0.4	4.21							Port side only
No.3 DB FO	IBP - 3rd strake IB - RDG 57	SK13	9.5	30	6.7	1255						9.3	0.2	2.11		Starboard side only
No.3 DB FO	IBP - 3rd strake IB - RDG 58	SK13	9.5	30	6.7	1025	9.1	0.4	4.21							Port side only
No.3 DB FO	IBP - 3rd strake IB - RDG 58	SK13	9.5	30	6.7	1255						9.3	0.2	2.11		Starboard side only
No.3 DB FO	BG plate - upper RDG no.59	SK13	12.7	30	8.9	760	12.9	0	0							Centerline girder
No.3 DB FO	BG plate - lower RDG no.60	SK13	12.7	30	8.9	760	13.2	0	0							Centerline girder
No.3 DB FO	BG plate - reading no.61	SK13	15.9	25	11.9	450	15.6	0.3	1.89			15.7	0.2	1.26		
No.3 DB FO	BG plate - upper RDG no.62	SK13	15.9	25	11.9	710	15.7	0.2	1.26			16.2	0	0		
No.3 DB FO	BG plate - lower RDG no.63	SK13	15.9	25	11.9	710	16.1	0	0			15.9	0	0		
No.3 DB FO	BG plate - upper RDG no.64	SK13	15.9	25	11.9	675	16.1	0	0			16.2	0	0		
No.3 DB FO	BG plate - lower RDG no.65	SK13	15.9	25	11.9	675	16	0	0			16.2	0	0		
No.3 DB FO	BG plate - upper RDG no.66	SK13	15.9	25	11.9	615	16	0	0			16.1	0	0		
No.3 DB FO	BG plate - lower RDG no.67	SK13	15.9	25	11.9	615	16	0	0			15.9	0	0		
No.3 DB FO	BG plate - upper RDG no.68	SK13	15.9	25	11.9	585	15.9	0	0			16	0	0		
No.3 DB FO	BG plate - lower RDG no.69	SK13	15.9	25	11.9	585	16.2	0	0			16.3	0	0		
No.3 DB FO	BG plate - upper RDG no.70	SK13	9.5	25	7.1	545	9.4	0.1	1.05			9.6	0	0		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





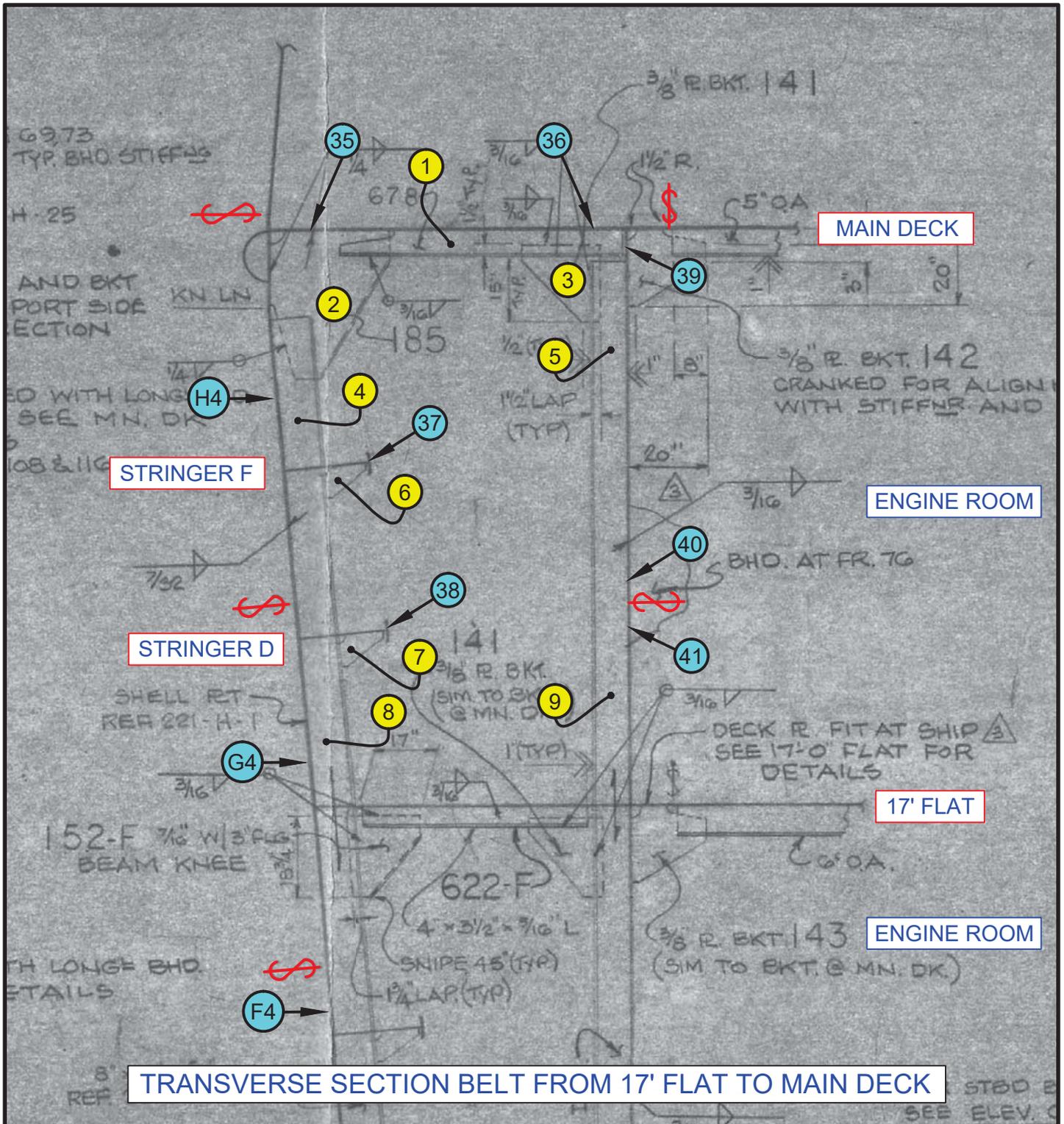
# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

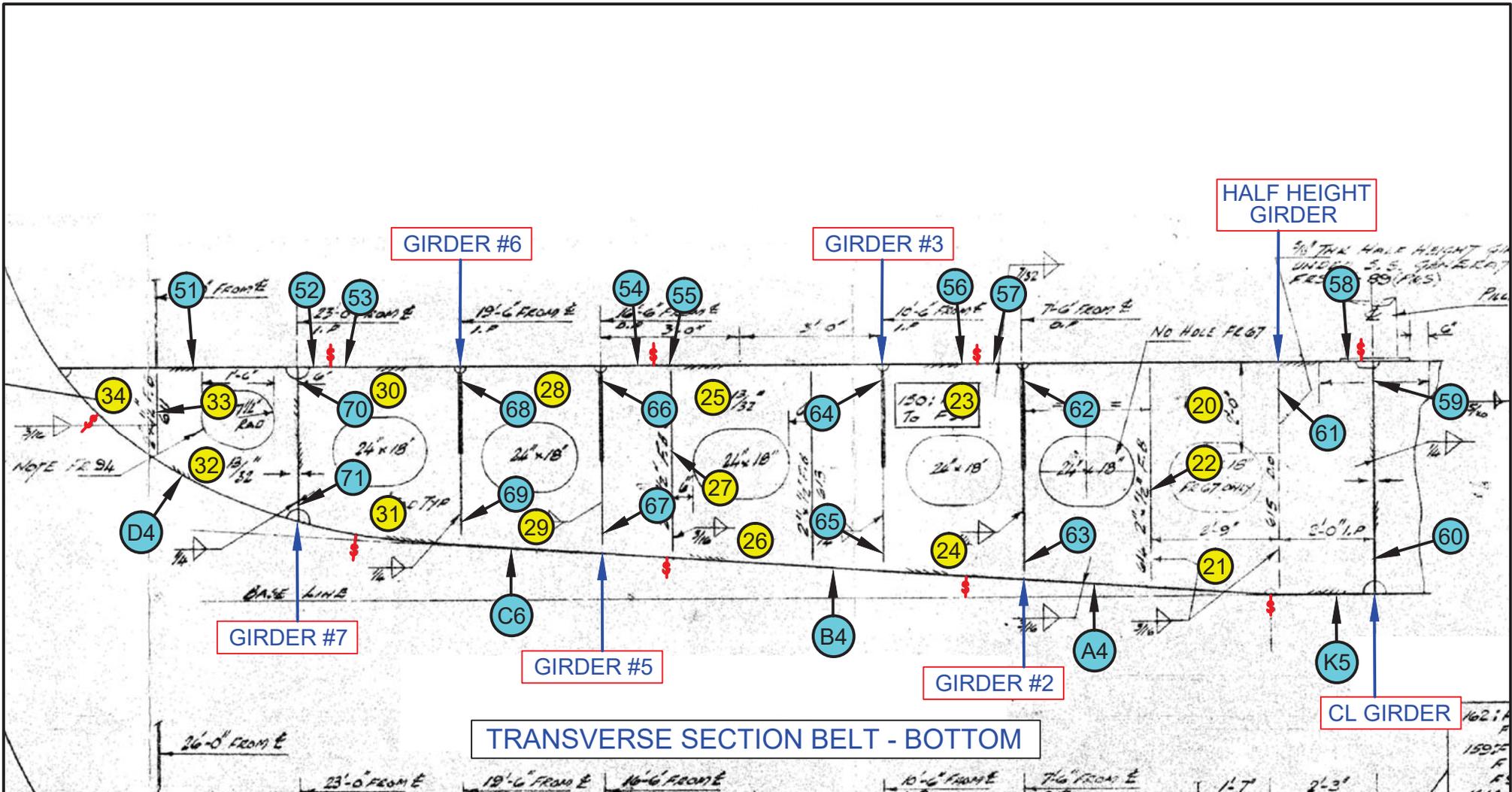
## Transverse Sections - Transverse Section No. 1 TM Sketches



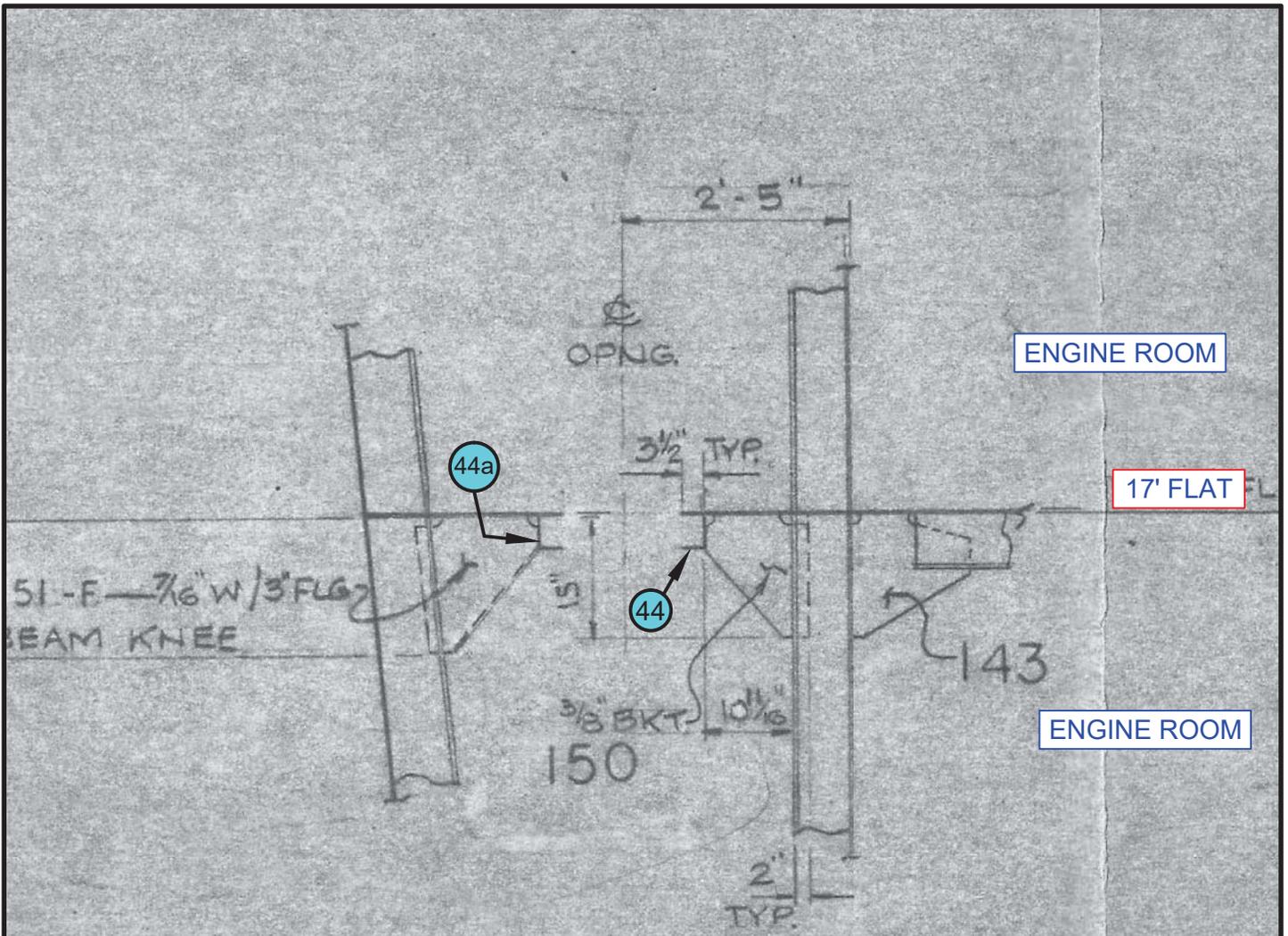
**TRANSVERSE SECTION BELT FROM 17' FLAT TO MAIN DECK**

Projet / Project N.G.C.C. Amundsen		 <p>INSPECTION <b>PGL</b> 9629331 CANADA INC.</p>		
Titre / Title Ceinture transversale - membrure 75 (Transverse section belt) - SK13				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Annie Truchon	Date 2018/01/03	Echelle / Scale Non à l'échelle	Feuille / Sheet # 1 de 4	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_belts_Amundsen_20180103.dwg			Rév. / Rev. # 0	





Projet / Project N.G.C.C. Amundsen		Echelle / Scale Non à l'échelle		 <b>INSPECTION PGL</b> <small>8629331 CANADA INC.</small>
Titre / Title Ceinture transversale - membrure 75 (Transverse section belt) - SK13		Feuille / Sheet # 3 de 4		
Client / Customer Travaux Publics et Services gouvernementaux Canada		Format / Size Ansi A (H)		
Préparé par / Prepared by Annie Truchon	Date 2018/01/03	Dessin / Drawing # PGL-131-2017-A_utm report_belts_Amundsen_20180103.dwg	Rév. / Rev. # 0	



ENGINE ROOM

17' FLAT

ENGINE ROOM

TYPICAL SECTION AT 17'-0" FLAT  
IN WAY OF ACCESS OPENINGS

FRAMES - 63, 67, 71, 75, 79, 83, 87, 102, 106, 110, 114.  
 DRAWN FOR FR. 91.

FOR INFO, NOT SHOWN SEE TYP. BHD. STIFFENS.  
 1/2" = 1'-0"

**TRANSVERSE SECTION BELT - 17' FLAT I.W.O. ACCESS OPENING**

Projet / Project N.G.C.C. Amundsen				
Titre / Title Ceinture transversale - membrure 75 (Transverse section belt) - SK13				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Annie Truchon	Date 2018/01/03	Echelle / Scale Non à l'échelle	Feuille / Sheet # 4 de 4	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_belts_Amundsen_20180103.dwg			Rév. / Rev. # 0	



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## Transverse Sections - Transverse Section No. 2

### TM Forms



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :		No. 2													
Zone :		Deck Zone													
Frame No. :		Frame No. 105													
Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
								(mm)	(%)			(mm)	(%)		
ACC	Stringer PL (A7) - Upper deck	SK1	8.7	30	6.1	1790	8.5	0.2	2.3		8.8	0	0		
ACC	2nd above sheer strake (L6)	SK2	12.7	30	8.9	830	12.6	0.1	0.79		12.5	0.2	1.57	Upper RDG	
ACC	2nd above sheer strake (L6)	SK2	12.7	30	8.9	830	12.6	0.1	0.79		12.8	0	0	Lower RDG	
ACC	1st above sheer strake (J6)	SK2	25.4	30	17.8	535	25.9	0	0		26.2	0	0	Upper RDG	
ACC	1st above sheer strake (J6)	SK2	25.4	30	17.8	535	26	0	0		26.1	0	0	Lower RDG	
FO tank ER	Sheer strake (H7)	SK2/14	42.9	30	30	930	42.7	0.2	0.47		43.1	0	0	Upper RDG	
FO tank ER	Sheer strake (H7)	SK2/14	42.9	30	30	930	40.1	2.8	6.53		41.8	1.1	2.56	Lower RDG	
FO tank ER	Stringer PL maindeck-RDG no.32	SK14	11.9	30	8.3	910	12.1	0	0		11.6	0.3	2.52		
FO tank ER	Stringer PL maindeck-RDG no.33	SK14	11.9	30	8.3	910	12.2	0	0		12	0	0		
FO tank ER	STR F (web) - OB Reading no.34	SK14	12.7	25	9.5	228	12.5	0.2	1.57		12.6	0.1	0.79		
FO tank ER	STR F (web) - IB Reading no.34	SK14	12.7	25	9.5	228	12.5	0.2	1.57		12.6	0.1	0.79		
FO tank ER	STR F (FLG) - Reading no.34	SK14	19.1	25	14.3	100	18.9	0.2	1.05		19	0.1	0.52		
FO tank ER	LBP - Reading no.36	SK14	7.9	30	5.5	880	7.7	0.2	2.53		8.1	0	0		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :		No. 2													
Zone :		Neutral Axis Zone													
Frame No. :		Frame No. 105													
Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
								(mm)	(%)			(mm)	(%)		
FO tank ER	1st below sheer strake (G7)	SK2	42.9	30	30	915	42.1	0.8	1.86		41.9	1	2.33		Upper RDG
FO tank ER	1st below sheer strake (G7)	SK2	42.9	30	30	915	41	1.9	4.43		42.1	0.8	1.86		Lower RDG
FO tank ER	2nd below sheer strake (F8)	SK2	42.9	30	30	840	42.2	0.7	1.63		41.9	1	2.33		Upper RDG
FO tank ER	2nd below sheer strake (F8)	SK2	42.9	30	30	840	41.8	1.1	2.56		41.5	1.4	3.26		Lower RDG
FO tank ER	STR D (web) - OB Reading no.35	SK14	12.7	25	9.5	228	12.7	0	0		13.1	0	0		
FO tank ER	STR D (web) - IB Reading no.35	SK14	12.7	25	9.5	228	12.6	0.1	0.79		13	0	0		
FO tank ER	STR D (FLG) - Reading no.35	SK14	19.1	25	14.3	100	18.9	0.2	1.05		18.9	0.2	1.05		
FO tank ER	LBP - reading no.37	SK14	7.9	30	5.5	880	7.8	0.1	1.27		8	0	0		
FO tank ER	LBP - reading no.38	SK14	7.9	30	5.5	1160	7.9	0	0		8.1	0	0		
FO tank ER	17' Flat - OB RDG no.39	SK14	11.9	25	8.9	785	11.9	0	0		11.8	0.1	0.84		
FO tank ER	17' Flat - IB RDG no.40	SK14	11.9	25	8.9	785	12	0	0		11.8	0.1	0.84		
FO tank ER	17' Flat -1st strake IB RDG 69	SK14	7.9	25	5.9	1890	7.8	0.1	1.27		7.8	0.1	1.27		
FO tank ER	17' Flat -2nd strake IB RDG 70	SK14	7.9	25	5.9	530	7.8	0.1	1.27		7.8	0.1	1.27		
FO tank ER	DGW - 17' Flat - Reading no.71	SK14	12.7	25	9.5	440	12.5	0.2	1.57		12.5	0.2	1.57		
FO tank ER	DGF - 17' Flat - Reading no.71	SK14	12.7	25	9.5	150	12.5	0.2	1.57		12.5	0.2	1.57		
FO tank ER	STR C (web) - OB Reading no.41	SK14	12.7	25	9.5	228	12.7	0	0		12.8	0	0		
FO tank ER	STR C (web) - IB Reading no.41	SK14	12.7	25	9.5	228	12.7	0	0		12.8	0	0		
FO tank ER	STR C (FLG) - Reading no.41	SK14	19.1	25	14.3	100	18.8	0.3	1.57		18.8	0.3	1.57		
FO tank ER	STR B (web) - OB Reading no.42	SK14	12.7	25	9.5	228	13	0	0		13.2	0	0		
FO tank ER	STR B (web) - OB Reading no.42	SK14	12.7	25	9.5	228	13	0	0		13.1	0	0		
FO tank ER	STR B (FLG) - Reading no.42	SK14	19.1	25	14.3	100	18.9	0.2	1.05		18.8	0.3	1.57		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :		No. 2													
Zone :		Bottom Zone													
Frame No. :		Frame No. 105													
Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
								(mm)	(%)			(mm)	(%)		
FO tank ER	3rd below sheer strake (E9)	SK2	31.8	30	22.3	930	31.4	0.4	1.26		31.7	0.1	0.31		Upper RDG
FO tank ER	3rd below sheer strake (E9)	SK2	31.8	30	22.3	930	31.8	0	0		32	0	0		Lower RDG
No.2 DB FO	4th below sheer strake (D7)	SK2	25.4	30	17.8	1025	26.3	0	0		24.9	0.5	1.97		OB RDG
No.2 DB FO	4th below sheer strake (D7)	SK2	25.4	30	17.8	1025	24.3	1.1	4.33		24.7	0.7	2.76		IB RDG
No.2 DB FO	5th below sheer strake (C9)	SK2	19.1	30	13.4	800	17.3	1.8	9.42		17.8	1.3	6.81		OB RDG
No.2 DB FO	5th below sheer strake (C9)	SK2	19.1	30	13.4	800	17	2.1	10.99		18.4	0.7	3.66		IB RDG
No.2 DB FO	6th below sheer strake (B6)	SK2	19.1	30	13.4	1000	17.2	1.9	9.95		18.1	1	5.24		OB RDG
No.2 DB FO	6th below sheer strake (B6)	SK2	19.1	30	13.4	1000	18.1	1	5.24		18.3	0.8	4.19		IB RDG
No.2 DB FO	7th below sheer strake (A6)	SK2	19.1	30	13.4	1020	18.2	0.9	4.71		17.5	1.6	8.38		OB RDG
No.2 DB FO	7th below sheer strake (A6)	SK2	19.1	30	13.4	1020	18.5	0.6	3.14		18	1.1	5.76		IB RDG
No.2 DB FO	Keel strake (K7)	SK2	19.1	30	13.4	680	17.5	1.6	8.38		17.8	1.3	6.81		
FO tank ER	STR A (web) - OB Reading no.43	SK14	12.7	25	9.5	228	13	0	0		12.9	0	0		
FO tank ER	STR A (web) - IB Reading no.43	SK14	12.7	25	9.5	228	13.1	0	0		12.9	0	0		
FO tank ER	STR A (FLG) - Reading no.43	SK14	19.1	25	14.3	100	18.8	0.3	1.57		18.9	0.2	1.05		
FO tank ER	LBP - reading no.46	SK14	7.9	30	5.5	1200	8	0	0		7.7	0.2	2.53		
No.2 DB FO	IBP - STR strake - RDG 47	SK14	9.5	30	6.7	200	8.8	0.7	7.37						Port side only
No.2 DB FO	IBP - STR strake - RDG 47	SK14	9.5	30	6.7	1870					8.9	0.6	6.32		Starboard side only
No.2 DB FO	IBP - STR strake - RDG 51	SK14	9.5	30	6.7	1870					9.7	0	0		Starboard side only
No.2 DB FO	IBP - 1st strake IB - RDG 48	SK14	9.5	30	6.7	950	9.2	0.3	3.16						Port side only
No.2 DB FO	IBP - 1st strake IB - RDG 49	SK14	9.5	30	6.7	950	9.5	0	0						Port side only
No.2 DB FO	IBP - 1st strake IB - RDG 52	SK14	9.5	30	6.7	1200					9.4	0.1	1.05		Starboard side only

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :		No. 2													
Zone :		Bottom Zone													
Frame No. :		Frame No. 105													
Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
								(mm)	(%)			(mm)	(%)		
No.2 DB FO	IBP - 1st strake IB - RDG 53	SK14	9.5	30	6.7	1200					9.5	0	0		Starboard side only
No.2 DB FO	IBP - 2nd strake IB - RDG 50	SK14	9.5	30	6.7	1045	9.4	0.1	1.05						Port side only
No.2 DB FO	IBP - 2nd strake IB - RDG 51	SK14	9.5	30	6.7	1045	9.4	0.1	1.05						Port side only
No.2 DB FO	IBP - 2nd strake IB - RDG 54	SK14	9.5	30	6.7	1180					9.3	0.2	2.11		Starboard side only
No.2 DB FO	IBP - 2nd strake IB - RDG 55	SK14	9.5	30	6.7	1180					9.3	0.2	2.11		Starboard side only
No.2 DB FO	IBP - 3rd strake IB - RDG 52	SK14	9.5	30	6.7	1045	9.6	0	0						Port side only
No.2 DB FO	IBP - 3rd strake IB - RDG 53	SK14	9.5	30	6.7	1045	9.6	0	0						Port side only
No.2 DB FO	IBP - 4th strake IB - RDG 54	SK14	9.5	30	6.7	1140	9.5	0	0						Port side only
No.2 DB FO	IBP - 4th strake IB - RDG 55	SK14	9.5	30	6.7	1140	9.5	0	0						Port side only
No.2 DB FO	BG plate - upper RDG no.57	SK14	12.7	30	8.9	760	12.7	0	0						Centerline girder
No.2 DB FO	BG plate - lower RDG no.58	SK14	12.7	30	8.9	760	12.5	0.2	1.57						Centerline girder
No.2 DB FO	BG plate - upper RDG no.59	SK14	15.9	25	11.9	750	15.9	0	0		15.9	0	0		
No.2 DB FO	BG plate - lower RDG no.60	SK14	15.9	25	11.9	750	15.9	0	0		15.9	0	0		
No.2 DB FO	BG plate - upper RDG no.61	SK14	15.9	25	11.9	715	15.9	0	0		16.2	0	0		
No.2 DB FO	BG plate - lower RDG no.62	SK14	15.9	25	11.9	715	15.9	0	0		16.3	0	0		
No.2 DB FO	BG plate - upper RDG no.63	SK14	15.9	25	11.9	645	15.9	0	0		15.9	0	0		
No.2 DB FO	BG plate - lower RDG no.64	SK14	15.9	25	11.9	645	15.9	0	0		15.8	0.1	0.63		
No.2 DB FO	BG plate - upper RDG no.65	SK14	15.9	25	11.9	605	16	0	0		16.1	0	0		
No.2 DB FO	BG plate - lower RDG no.66	SK14	15.9	25	11.9	605	15.8	0.1	0.63		15.9	0	0		
No.2 DB FO	BG plate - upper RDG no.67	SK14	9.5	25	7.1	540	9.5	0	0		9.6	0	0		
No.2 DB FO	BG plate - lower RDG no.68	SK14	9.5	25	7.1	540	9.6	0	0		9.5	0	0		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



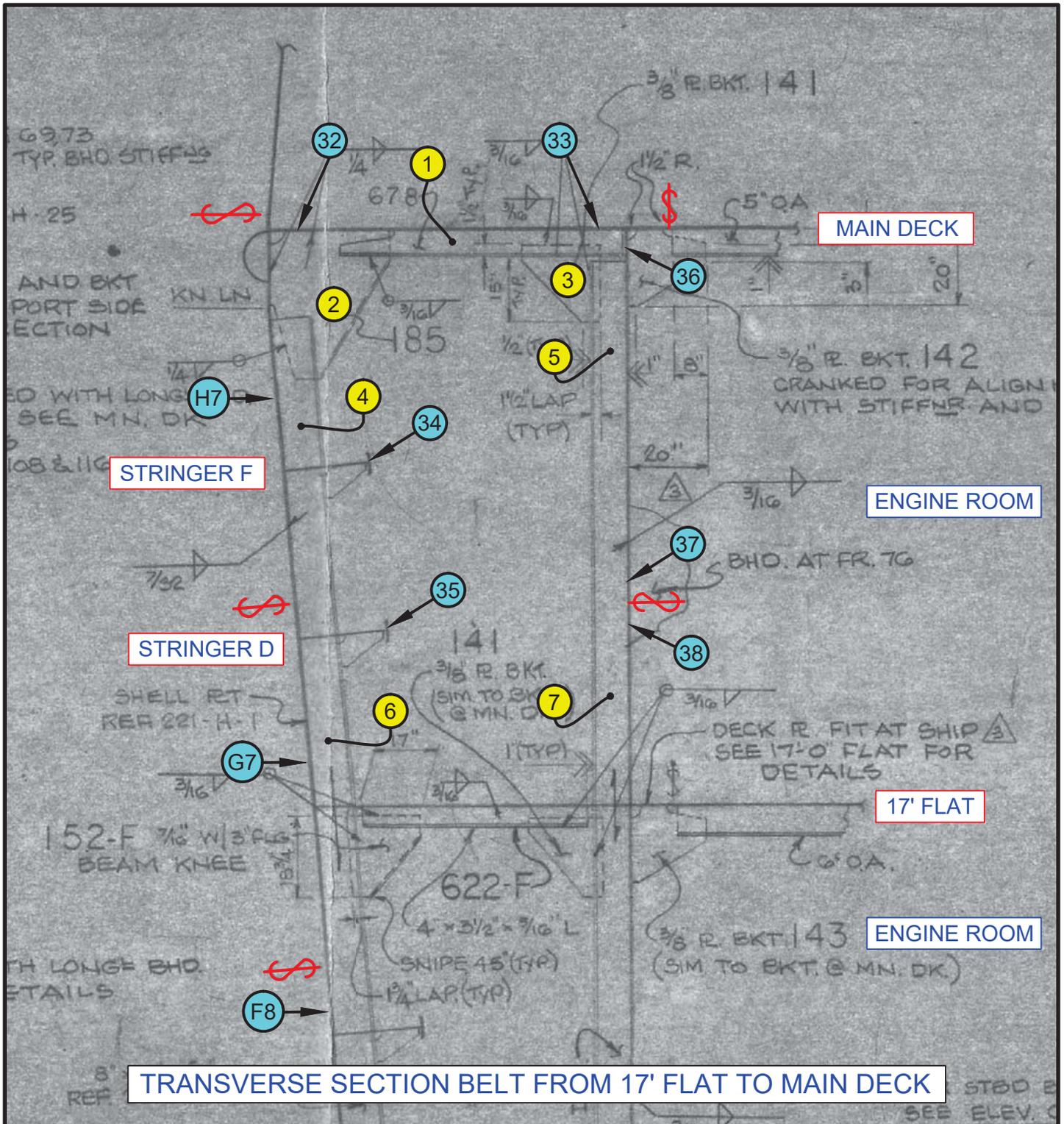
# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

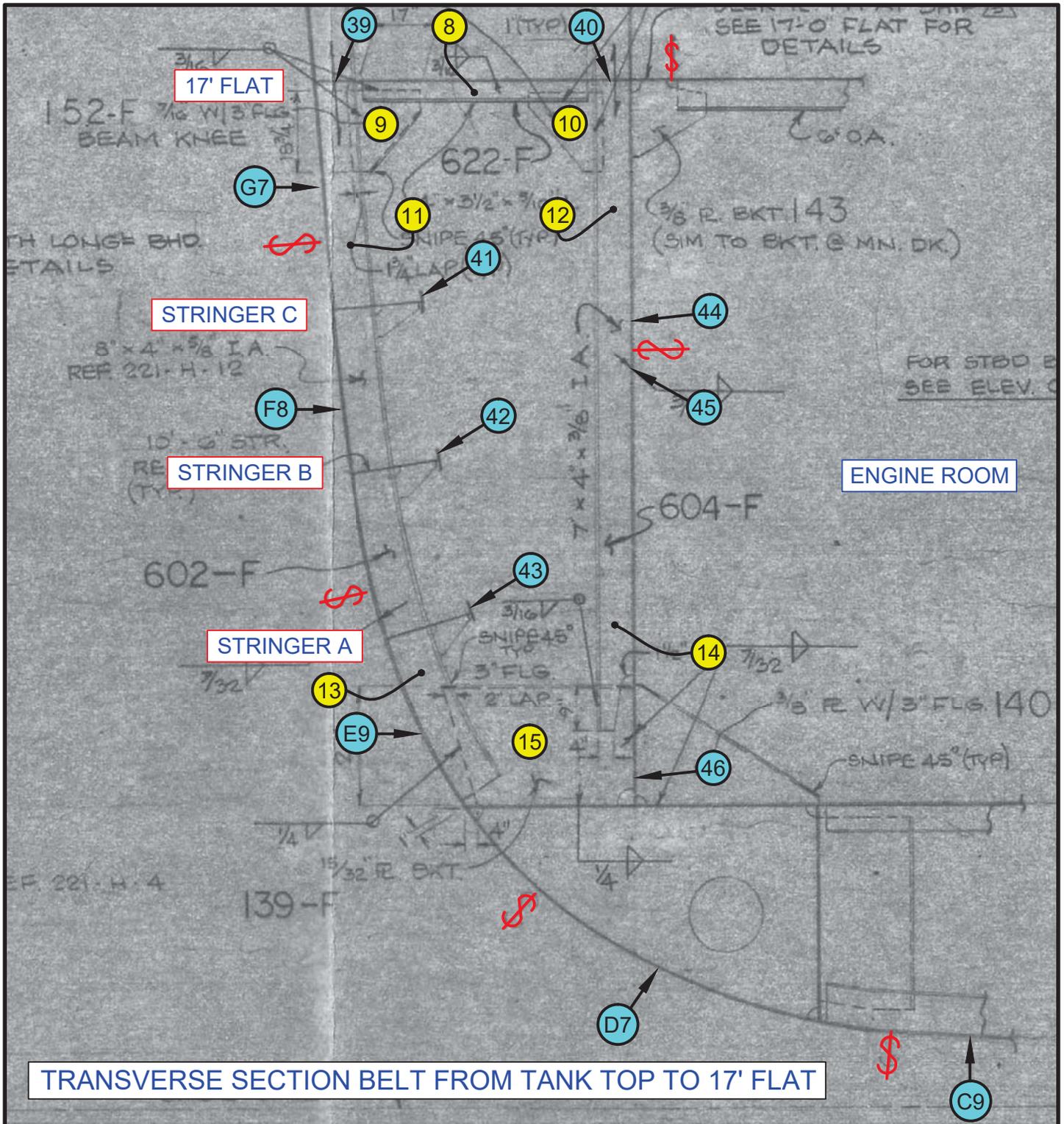
TM Report No : MTL1700708

## Transverse Sections - Transverse Section No. 2 TM Sketches



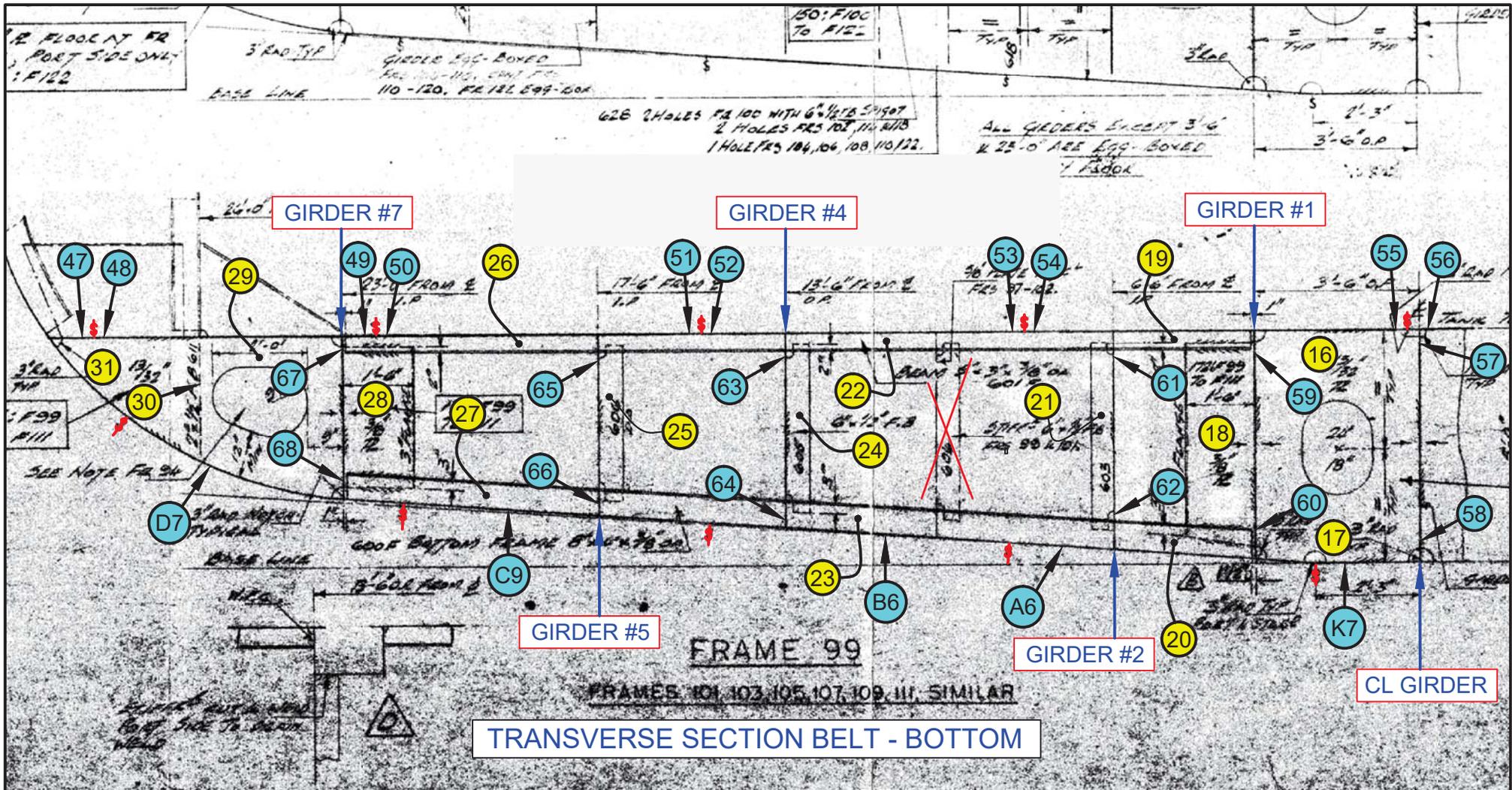
**TRANSVERSE SECTION BELT FROM 17' FLAT TO MAIN DECK**

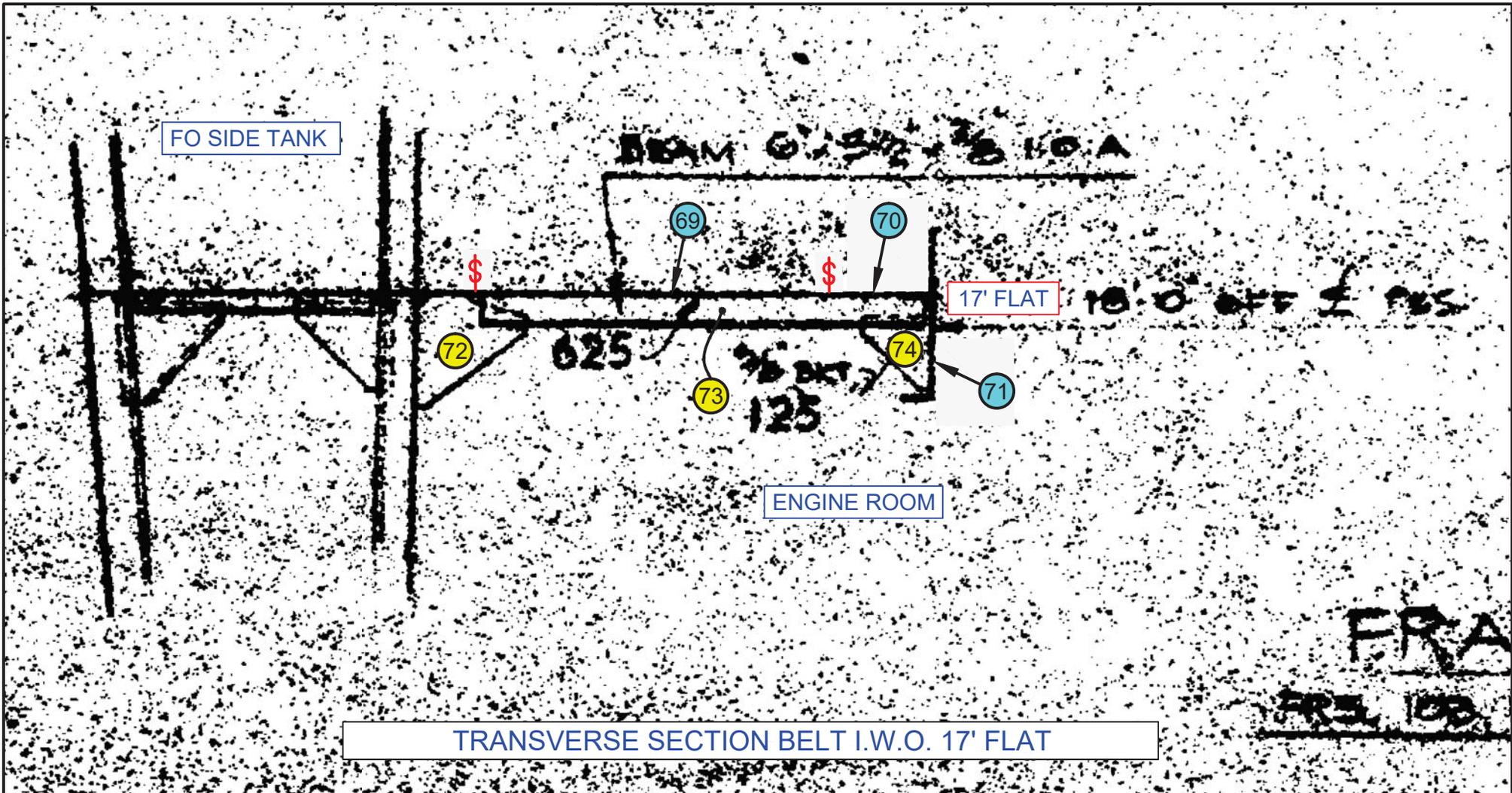
Projet / Project N.G.C.C. Amundsen				
Titre / Title Ceinture transversale - membrure 105 (Transverse section belt) - SK14				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Annie Truchon	Date 2018/01/03	Echelle / Scale Non à l'échelle	Feuille / Sheet # 1 de 4	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_belts_Amundsen_20180103.dwg			Rév. / Rev. # 0	



TRANSVERSE SECTION BELT FROM TANK TOP TO 17' FLAT

Projet / Project N.G.C.C. Amundsen				
Titre / Title Ceinture transversale - membrure 105 (Transverse section belt) - SK14				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Annie Truchon	Date 2018/01/03	Echelle / Scale Non à l'échelle	Feuille / Sheet # 2 de 4	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_belts_Amundsen_20180103.dwg			Rév. / Rev. # 0	





TRANSVERSE SECTION BELT I.W.O. 17' FLAT

Projet / Project N.G.C.C. Amundsen		Echelle / Scale Non à l'échelle	 <p>INSPECTION <b>PGL</b> 8629331 CANADA INC.</p>
Titre / Title Ceinture transversale - membrure 105 (Transverse section belt) - SK14		Feuille / Sheet # 4 de 4	
Client / Customer Travaux Publics et Services gouvernementaux Canada		Format / Size Ansi A (H)	
Préparé par / Prepared by Annie Truchon	Date 2018/01/03	Dessin / Drawing # PGL-131-2017-A_utm report_belts_Amundsen_20180103.dwg	
			Rév. / Rev. # 0



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## Transverse Sections - Transverse Section No. 3 TM Forms



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :		No. 3													
Zone :		Deck Zone													
Frame No. :		Frame No. 135													
Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
								(mm)	(%)			(mm)	(%)		
ACC	Stringer PL (A8) - Upper deck	SK1	8.7	30	6.1	1790	8.8	0	0		8.9	0	0		
ACC	2nd above sheer strake (L8)	SK2	12.7	30	8.9	840	12	0.7	5.51		12.8	0	0		Upper RDG
ACC	2nd above sheer strake (L8)	SK2	12.7	30	8.9	840	13	0	0		13	0	0		Lower RDG
ACC	1st above sheer strake (J8)	SK2	25.4	30	17.8	535	25.2	0.2	0.79		25.1	0.3	1.18		Upper RDG
ACC	1st above sheer strake (J8)	SK2	25.4	30	17.8	535	25.1	0.3	1.18		25.2	0.2	0.79		Lower RDG
Flume (up)	Sheer strake (H9)	SK2	42.9	30	30	1050	41.8	1.1	2.56		42.1	0.8	1.86		Upper RDG
Flume (up)	Sheer strake (H9)	SK2	42.9	30	30	1050	41.7	1.2	2.8		41.8	1.1	2.56		Lower RDG
Flume (up)	Stringer PL maindeck-RDG no.68	SK15-B	12.7	30	8.9	1040	12.6	0.1	0.79		12.7	0	0		
Flume (up)	Stringer PL maindeck-RDG no.69	SK15-B	12.7	30	8.9	1040	12.7	0	0		12.7	0	0		
Flume (up)	Maindeck -1st strake IB RDG 70	SK15-B	7.9	30	5.5	950	7.7	0.2	2.53		7.8	0.1	1.27		
Flume (up)	Maindeck -1st strake IB RDG 71	SK15-B	7.9	30	5.5	950	7.7	0.2	2.53		7.8	0.1	1.27		
Flume (up)	Maindeck -2nd strake IB RDG 72	SK15-B	7.9	30	5.5	895	7.7	0.2	2.53		7.8	0.1	1.27		
Flume (up)	Maindeck -2nd strake IB RDG 73	SK15-B	7.9	30	5.5	895	7.8	0.1	1.27		7.7	0.2	2.53		
Flume (up)	Maindeck -3rd strake IB RDG 74	SK15-B	7.9	30	5.5	910	7.7	0.2	2.53		7.7	0.2	2.53		
Flume (up)	Maindeck -3rd strake IB RDG 75	SK15-B	7.9	30	5.5	910	7.8	0.1	1.27		7.3	0.6	7.59		
Flume (up)	Maindeck -4th strake IB RDG 76	SK15-B	7.9	30	5.5	850	7.8	0.1	1.27						Port side only
Flume (up)	Maindeck -4th strake IB RDG 77	SK15-B	7.9	30	5.5	850	7.9	0	0						Port side only
Flume (up)	Maindeck -4th strake IB RDG 76	SK15-B	7.9	30	5.5	1060					7.7	0.2	2.53		Starboard side only
Flume (up)	Maindeck -4th strake IB RDG 77	SK15-B	7.9	30	5.5	1060					7.7	0.2	2.53		Starboard side only
Flume (up)	DG (web) - upper RDG no.78	SK15-A	12.7	25	9.5	225	12.7	0	0						Centerline girder
Flume (up)	DG (web) - lower RDG no.78	SK15-A	12.7	25	9.5	225	12.8	0	0						Centerline girder

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :		No. 3													
Zone :		Neutral Axis Zone													
Frame No. :		Frame No. 135													
Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
								(mm)	(%)			(mm)	(%)		
Flume (up)	1st below sheer strake (G9)	SK2	42.9	30	30	890	40.7	2.2	5.13		40.4	2.5	5.83		Upper RDG
Flume (up)	1st below sheer strake (G9)	SK2	42.9	30	30	890	41.2	1.7	3.96		40.4	2.5	5.83		Lower RDG
Flume(low)	2nd below sheer strake (F10)	SK2	42.9	30	30	865	40.8	2.1	4.9		40.8	2.1	4.9		Upper RDG
Flume(low)	2nd below sheer strake (F10)	SK2	42.9	30	30	865	41.1	1.8	4.2		41.5	1.4	3.26		Lower RDG
Flume (up)	STR D (web) - OB Reading no.81	SK15-A	12.7	25	9.5	228	12.9	0	0		12.5	0.2	1.57		
Flume (up)	STR D (web) - IB Reading no.81	SK15-A	12.7	25	9.5	228	12.9	0	0		12.7	0	0		
Flume (up)	STR D (FLG) - Reading no.81	SK15-A	19.1	25	14.3	100	19.2	0	0		18.9	0.2	1.05		
Flume (up)	LBP - Reading no.85	SK15-C	7.9	25	5.9	1645	8.3	0	0		8.2	0	0		Nozzle BHD
Flume (up)	LBP (FF) - Reading no.86	SK15-C	12.7	25	9.5	152	12.7	0	0		12.4	0.3	2.36		Nozzle BHD
Flume(low)	Stringer PL 17' Flat-RDG no.87	SK15-D	12.7	30	8.9	960	12.8	0	0		13.1	0	0		
Flume(low)	Stringer PL 17' Flat-RDG no.88	SK15-D	12.7	30	8.9	960	12.7	0	0		12.9	0	0		
Flume(low)	17' Flat -1st strake IB RDG 89	SK15-D	7.9	30	5.5	1040	8.2	0	0		8.3	0	0		
Flume(low)	17' Flat -1st strake IB RDG 90	SK15-D	7.9	30	5.5	1040	8.2	0	0		7.9	0	0		
Flume(low)	17' Flat -2nd strake IB RDG 91	SK15-D	7.9	30	5.5	750	8.1	0	0		8.1	0	0		
Flume(low)	17' Flat -2nd strake IB RDG 92	SK15-D	7.9	30	5.5	750	8.1	0	0		7.5	0.4	5.06		
Flume(low)	17' Flat -3rd strake IB RDG 93	SK15-D	7.9	30	5.5	1200	8	0	0		7.9	0	0		
Flume(low)	17' Flat -3rd strake IB RDG 94	SK15-D	7.9	30	5.5	1200	8.2	0	0		7.9	0	0		
Flume(low)	17' Flat -4th strake IB RDG 95	SK15-D	7.9	30	5.5	1220	8	0	0		7.6	0.3	3.8		
Flume(low)	DG (web) - upper RDG no.96	SK15-D	9.5	25	7.1	230	9.5	0	0						Centerline girder
Flume(low)	DG (web) - lower RDG no.96	SK15-D	9.5	25	7.1	230	9.5	0	0						Centerline girder
Flume(low)	DG (FF) - RDG no.96	SK15-D	15.9	25	11.9	255	16	0	0						Centerline girder

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :		No. 3													
Zone :		Bottom Zone													
Frame No. :		Frame No. 135													
Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
								(mm)	(%)			(mm)	(%)		
Flume(low)	3rd below sheer strake (E11)	SK2	42.9	30	30	750	42.7	0.2	0.47		41.7	1.2	2.8		Upper RDG
Flume(low)	3rd below sheer strake (E11)	SK2	42.9	30	30	750	42.6	0.3	0.7		42.9	0	0		Lower RDG
No.1 DB FO	4th below sheer strake (D9)	SK2	31.8	30	22.3	900	31	0.8	2.52		30	1.8	5.66		OB RDG
No.1 DB FO	4th below sheer strake (D9)	SK2	31.8	30	22.3	900	31.2	0.6	1.89		30.5	1.3	4.09		IB RDG
No.1 DB FO	5th below sheer strake (C11)	SK2	31.8	30	22.3	800	30.8	1	3.14		31.1	0.7	2.2		OB RDG
No.1 DB FO	5th below sheer strake (C11)	SK2	31.8	30	22.3	800	31.4	0.4	1.26		30.3	1.5	4.72		IB RDG
No.1 DB FO	6th below sheer strake (B8)	SK2	31.8	30	22.3	980	30.5	1.3	4.09		30.1	1.7	5.35		OB RDG
No.1 DB FO	6th below sheer strake (B8)	SK2	31.8	30	22.3	980	30	1.8	5.66		30.1	1.7	5.35		IB RDG
No.1 DB FO	7th below sheer strake (A8)	SK2	31.8	30	22.3	1015	30.4	1.4	4.4		29.7	2.1	6.6		OB RDG
No.1 DB FO	7th below sheer strake (A8)	SK2	31.8	30	22.3	1015	29.2	2.6	8.18		31	0.8	2.52		IB RDG
Duct keel	Keel strake (K10)	SK2	31.8	30	22.3	680	28.1	3.7	11.64		27.7	4.1	12.89		
Flume(low)	STR A (web) - OB RDG no.100	SK15-D	12.7	25	9.5	228	12.1	0.6	4.72		12.1	0.6	4.72		
Flume(low)	STR A (web) - IB RDG no.100	SK15-D	12.7	25	9.5	228	11.6	1.1	8.66		12.3	0.4	3.15		
Flume(low)	STR A (FLG) - Reading no.100	SK15-D	19.1	25	14.3	100	19	0.1	0.52		18.9	0.2	1.05		
Flume(low)	LBP - Reading no.104	SK15-E	9.5	25	7.1	1213	9.4	0.1	1.05		9.6	0	0		
Flume(low)	LBP (FF) - Reading no.105	SK15-E	12.7	25	9.5	152	12.4	0.3	2.36		12.8	0	0		
No.1 DB FO	IBP STR strake - RDG 106	SK15-F	9.5	30	6.7	250	9.7	0	0						Port side only
No.1 DB FO	IBP STR strake - RDG 107	SK15-F	9.5	30	6.7	250	9.6	0	0						Port side only
No.1 DB FO	IBP STR strake - RDG 106	SK15-F	9.5	30	6.7	280					9.2	0.3	3.16		Starboard side only
No.1 DB FO	IBP STR strake - RDG 107	SK15-F	9.5	30	6.7	280					9.1	0.4	4.21		Starboard side only
No.1 DB FO	IBP -1st strake IB RDG 108	SK15-F	9.5	30	6.7	1055	9.5	0	0						Port side only

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :		No. 3													
Zone :		Bottom Zone													
Frame No. :		Frame No. 135													
Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
								(mm)	(%)			(mm)	(%)		
No.1 DB FO	IBP -1st strake IB RDG 109	SK15-F	9.5	30	6.7	1055	9.4	0.1	1.05						Port side only
No.1 DB FO	IBP -1st strake IB RDG 108	SK15-F	9.5	30	6.7	1060					9.2	0.3	3.16		Starboard side only
No.1 DB FO	IBP -1st strake IB RDG 109	SK15-F	9.5	30	6.7	1060					9.3	0.2	2.11		Starboard side only
No.1 DB FO	IBP -2nd strake IB RDG 110	SK15-F	9.5	30	6.7	1200	8.8	0.7	7.37						Port side only
No.1 DB FO	IBP -2nd strake IB RDG 111	SK15-F	9.5	30	6.7	1200	8.9	0.6	6.32						Port side only
No.1 DB FO	IBP -2nd strake IB RDG 110	SK15-F	9.5	30	6.7	1060					9.2	0.3	3.16		Starboard side only
No.1 DB FO	IBP -2nd strake IB RDG 111	SK15-F	9.5	30	6.7	1060					9.3	0.2	2.11		Starboard side only
No.1 DB FO	IBP -3rd strake IB RDG 112	SK15-F	9.5	30	6.7	1200	9.5	0	0		9.2	0.3	3.16		
No.1 DB FO	IBP -3rd strake IB RDG 113	SK15-F	9.5	30	6.7	1200	9.6	0	0		9.4	0.1	1.05		
Duct keel	BL - Reading no.114	SK15-F	11.1	25	8.3	152	8.4	2.7	24.32						Centerline BL
Duct keel	BL (FLG) - Reading no.114	SK15-F	11.1	25	8.3	89	8.9	2.2	19.82						Centerline BL
Duct keel	BG plate - upper RDG no.115	SK15-F	11.9	30	8.3	760	12.1	0	0		12.1	0	0		
Duct keel	BG plate - lower RDG no.116	SK15-F	11.9	30	8.3	760	12.1	0	0		12.1	0	0		
No.1 DB FO	BG plate - upper RDG no.117	SK15-F	9.5	25	7.1	275	9.6	0	0		9.3	0.2	2.11		
No.1 DB FO	BG plate - lower RDG no.117	SK15-F	9.5	25	7.1	275	9.6	0	0		9.3	0.2	2.11		
No.1 DB FO	BG plate (FLG) - RDG no.117	SK15-F	9.5	25	7.1	105	9.6	0	0		9.3	0.2	2.11		
No.1 DB FO	BG plate - upper RDG no.118	SK15-F	9.5	25	7.1	690	9.3	0.2	2.11		9.4	0.1	1.05		
No.1 DB FO	BG plate - lower RDG no.119	SK15-F	9.5	25	7.1	690	9.7	0	0		9.7	0	0		
No.1 DB FO	BG plate - upper RDG no.120	SK15-F	9.5	25	7.1	298	9.6	0	0		9.6	0	0		
No.1 DB FO	BG plate - lower RDG no.120	SK15-F	9.5	25	7.1	298	9.6	0	0		9.6	0	0		
No.1 DB FO	BG plate (FLG) - RDG no.120	SK15-F	9.5	25	7.1	100	9.5	0	0		9.6	0	0		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





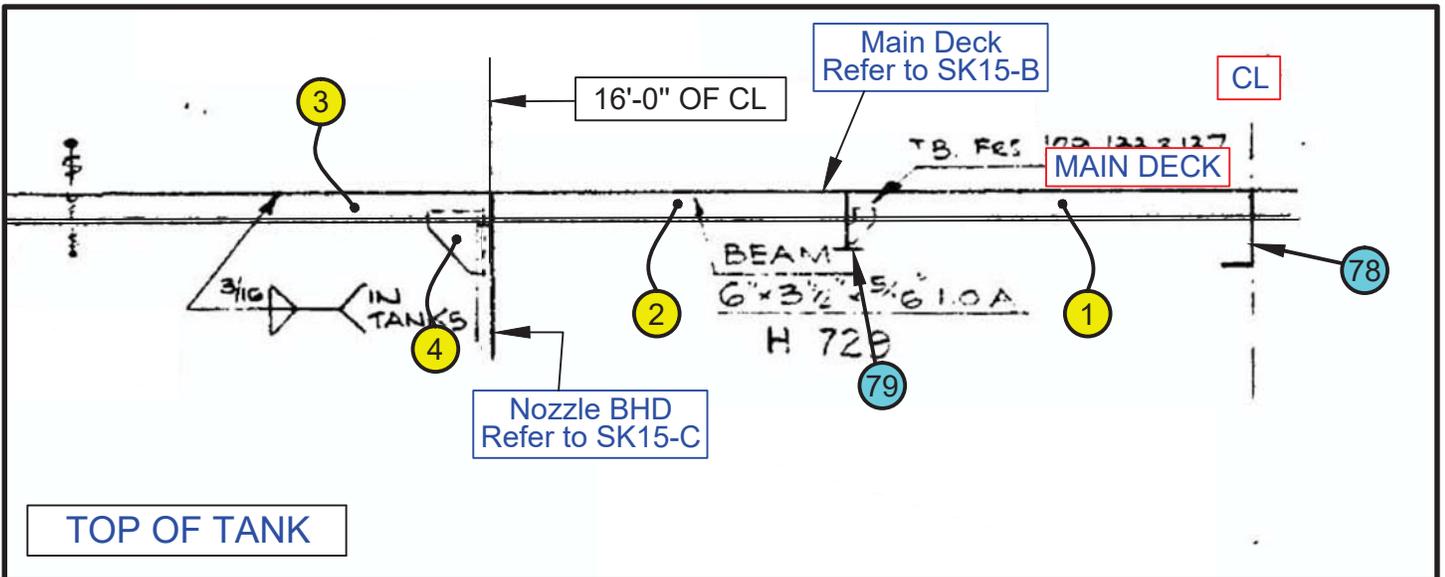
# Thickness Measurement Report

Ship's Name : Amundsen

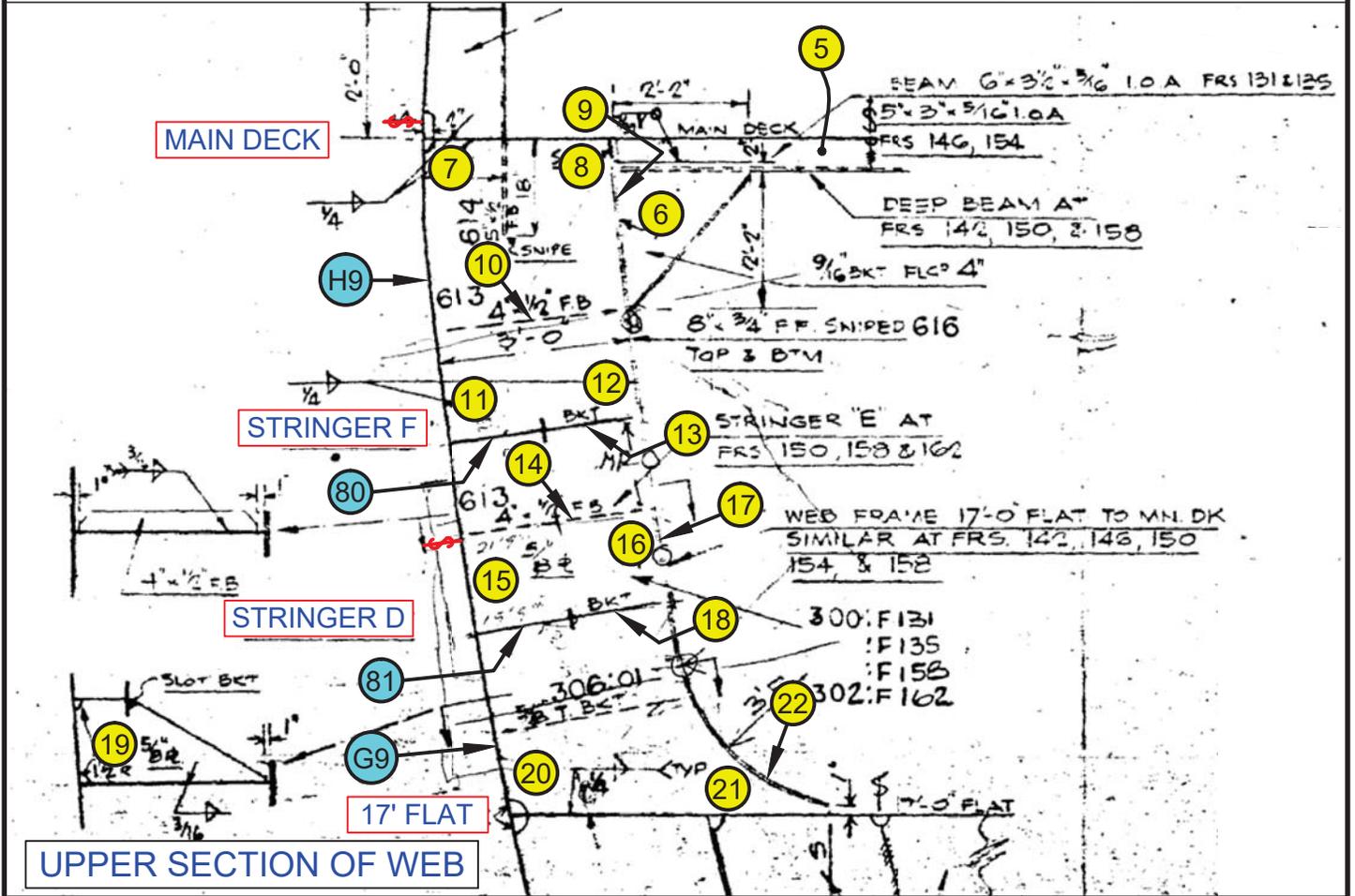
LR/IMO Number : 7510846

TM Report No : MTL1700708

## Transverse Sections - Transverse Section No. 3 TM Sketches



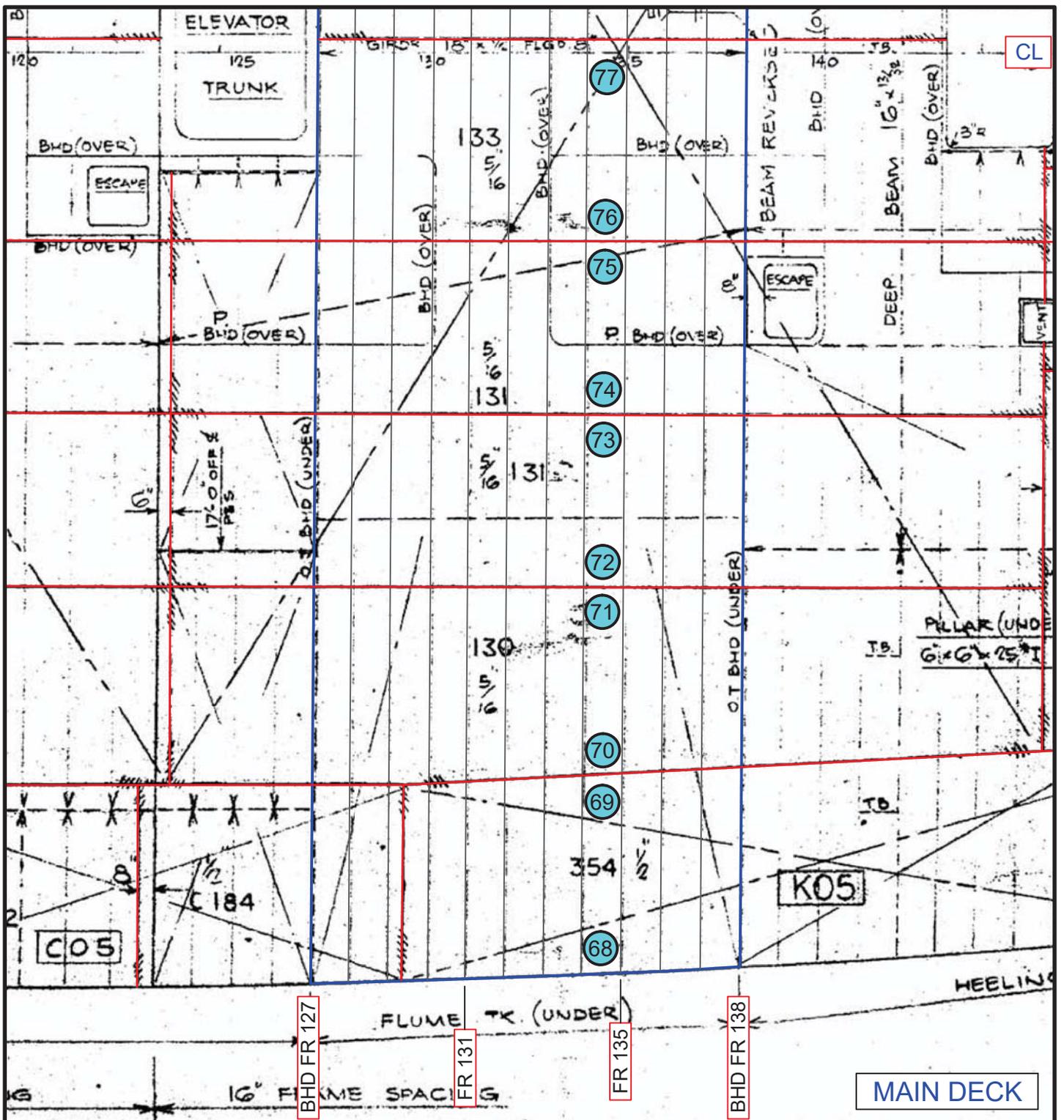
TOP OF TANK



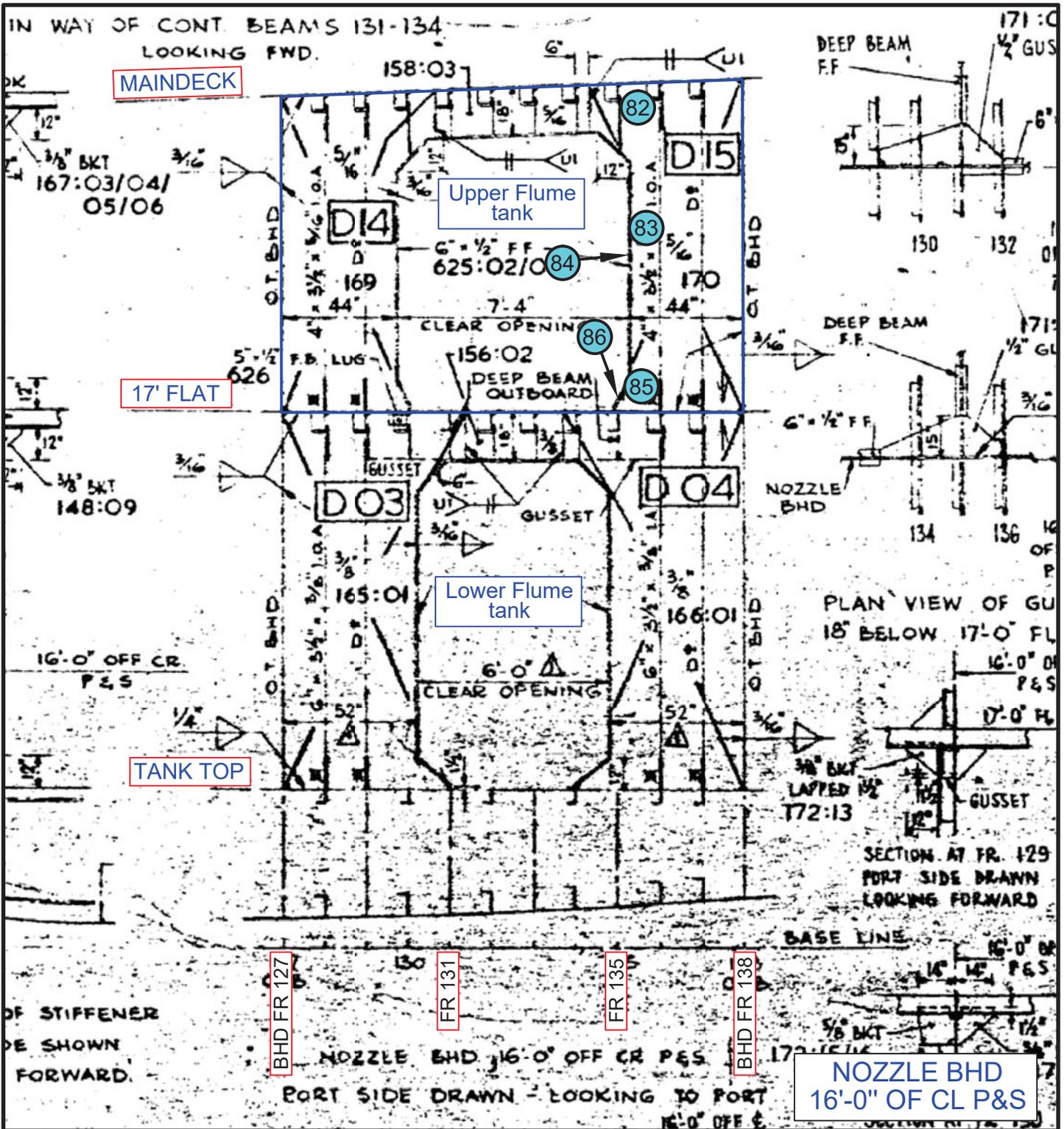
UPPER SECTION OF WEB

Projet / Project			
N.G.C.C. Amundsen			
Titre / Title			
Ceinture transversale-membrure 135 (Transverse section belt) - SK15-A			
Client / Customer			
Travaux Publics et Services gouvernementaux Canada			
Préparé par / Prepared by	Date	Echelle / Scale	Feuille / Sheet #
Annie Truchon	2018/01/03	Non à l'échelle	1 de 6
Dessin / Drawing #			Rév. / Rev. #
PGL-131-2017-A_utm report_belt fr 135_Amundsen_20180103.dwg			0



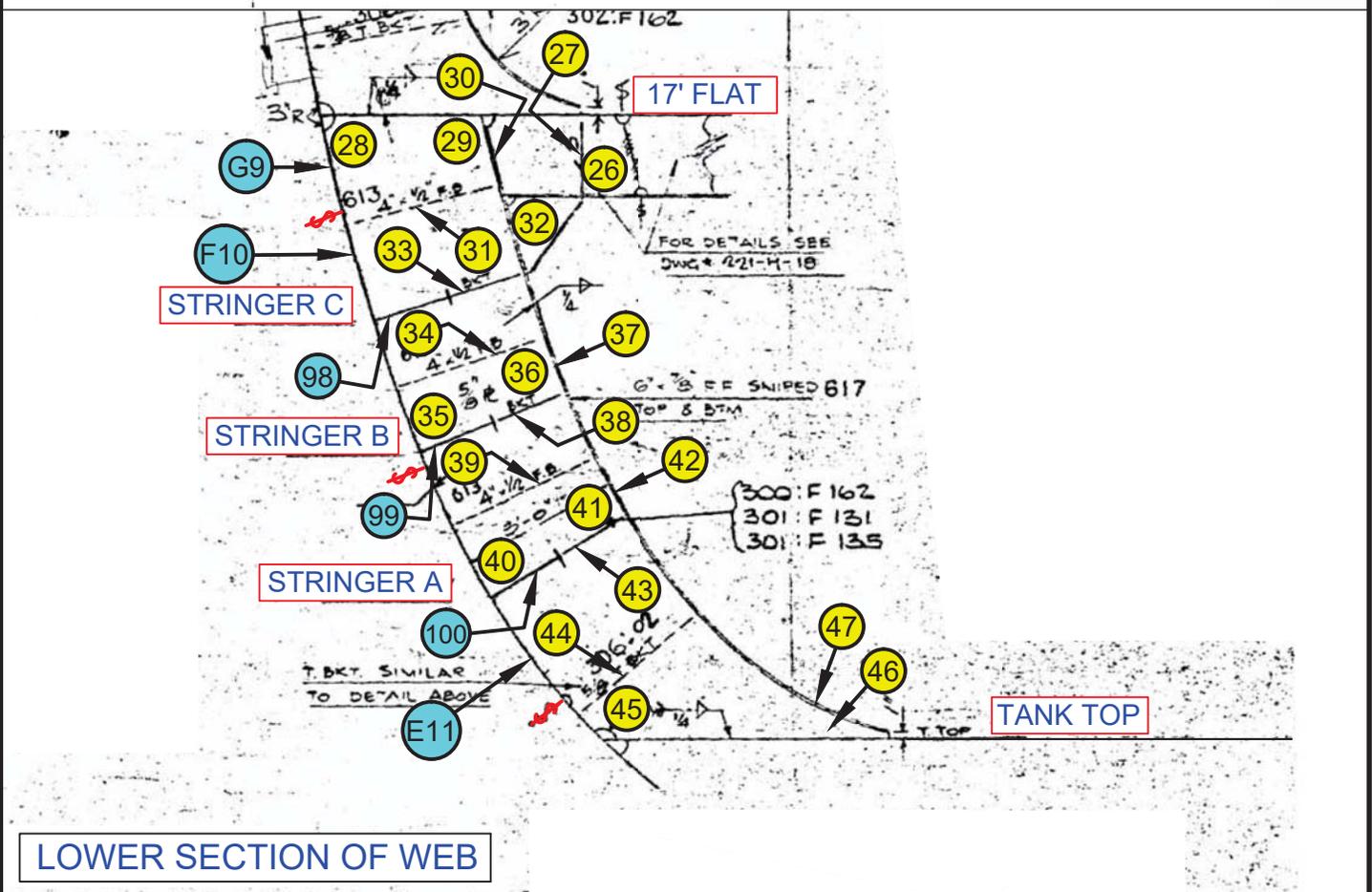
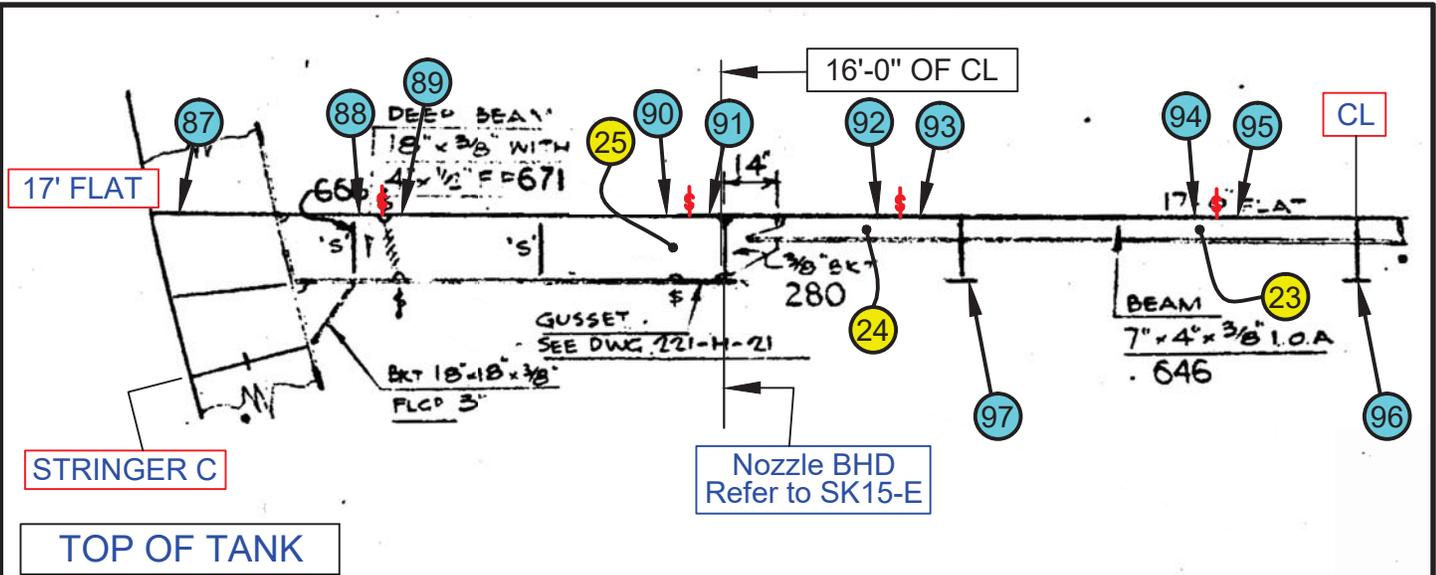


Projet / Project N.G.C.C. Amundsen		 <small>9629331 CANADA INC.</small>		
Titre / Title Ceinture transversale-membrure 135 (Transverse sectionbelt) - SK15-B				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Annie Truchon	Date 2018/01/04	Echelle / Scale Non à l'échelle	Feuille / Sheet # 2 de 6	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_belt fr 135_Amundsen_20180103.dwg			Rév. / Rev. # 0	



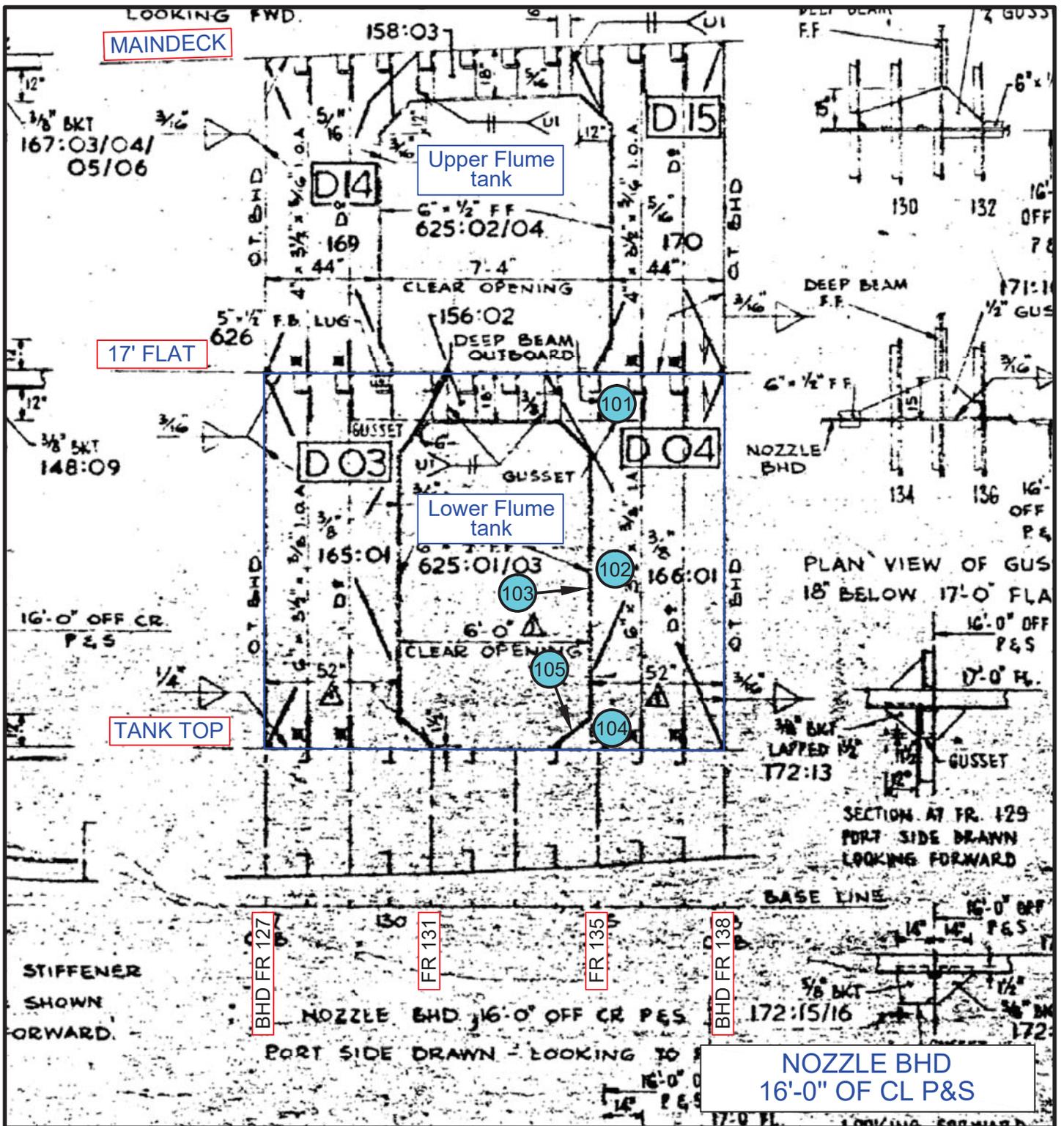
Projct / Project		N.G.C.C. Amundsen	
Titre / Title		Ceinture transversale-membrure 135 (Transverse section belt) - SK15-C	
Client / Customer		Travaux Publics et Services gouvernementaux Canada	
Préparé par / Prepared by	Date	Echelle / Scale	Feuille / Sheet #
Annie Truchon	2018/01/04	Non à l'échelle	3 de 6
Dessin / Drawing #		Rév. / Rev. #	
PGL-131-2017-A_utm report_belt fr 135_Amundsen_20180103.dwg		0	





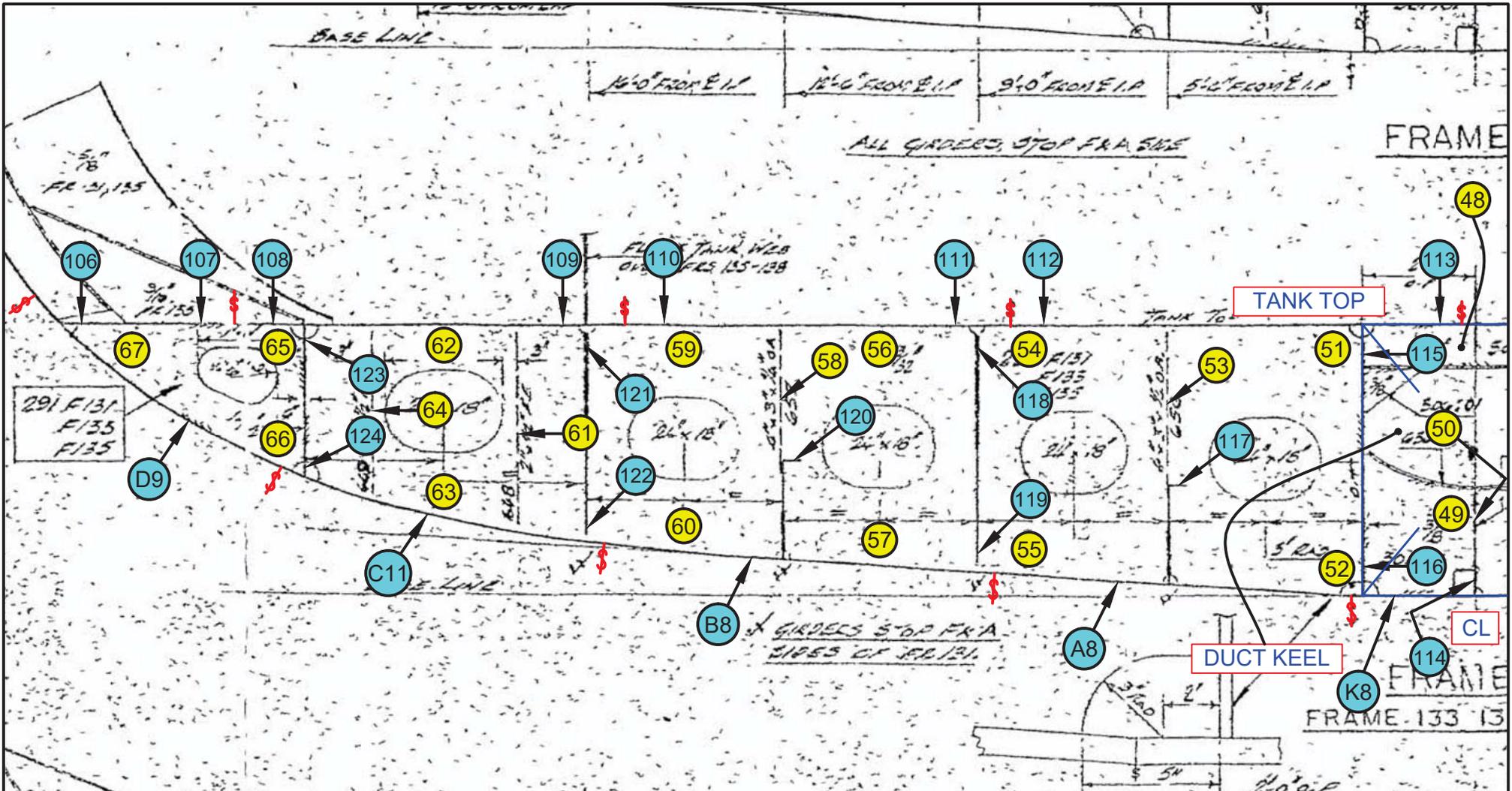
Projet / Project		N.G.C.C. Amundsen	
Titre / Title		Ceinture transversale-membrure 135 (Transverse section belt) - SK15-D	
Client / Customer		Travaux Publics et Services gouvernementaux Canada	
Préparé par / Prepared by	Date	Echelle / Scale	Feuille / Sheet #
Annie Truchon	2018/01/04	Non à l'échelle	4 de 6
Dessin / Drawing #		Rév. / Rev. #	
PGL-131-2017-A_utm report_belt 135_2_Amundsen_20180103.dwg		0	





Projct / Project		N.G.C.C. Amundsen	
Titre / Title		Ceinture transversale-membrure 135 (Transverse section belt) - SK15-E	
Client / Customer		Travaux Publics et Services gouvernementaux Canada	
Préparé par / Prepared by	Date	Echelle / Scale	Feuille / Sheet #
Annie Truchon	2018/01/04	Non à l'échelle	5 de 6
Dessin / Drawing #		Rév. / Rev. #	
PGL-131-2017-A_utm report_belt 135_2_Amundsen_20180103.dwg		0	





Projet / Project N.G.C.C. Amundsen		Echelle / Scale Non à l'échelle		 <b>INSPECTION PGL</b> <small>8629331 CANADA INC.</small>
Titre / Title Ceinture transversale - membrure 135 (Transverse section belt) - SK15-F		Feuille / Sheet # 6 de 6		
Client / Customer Travaux Publics et Services gouvernementaux Canada		Format / Size Ansi A (H)		
Préparé par / Prepared by Annie Truchon	Date 2018/01/04	Dessin / Drawing # PGL-131-2017-A_utm report_belt 135_3_Amundsen_20180103.dwg	Rév. / Rev. # 0	



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## Transverse Sections - Transverse Section No. 1

### TM Forms



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM8 - Transverse Sections - Longitudinal Strength Assessment

Transverse Section :	No. 1
Frame No. :	Frame No. 75

### Area Assessment of Hull Girder Strength

Zone	Actual (cm <sup>2</sup> )	Rule (cm <sup>2</sup> )	Reduction (%)	Acceptance Criteria (%)
Deck Zone	3464.9	3472.3	0.21	10
Neutral Axis Zone	4160.5	4276.8	2.72	15
Bottom Zone	8741.1	8884.8	1.62	10

● Non-Acceptable

Name of TM Operator: Elvis Poulin

Name of LR Attending Surveyor: Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM8 - Transverse Sections - Longitudinal Strength Assessment

Transverse Section :	No. 2
Frame No. :	Frame No. 105

### Area Assessment of Hull Girder Strength

Zone	Actual (cm <sup>2</sup> )	Rule (cm <sup>2</sup> )	Reduction (%)	Acceptance Criteria (%)
Deck Zone	3573.2	3598.8	0.71	10
Neutral Axis Zone	5010.3	5087.4	1.52	15
Bottom Zone	8542.3	8727.9	2.13	10

 Non-Acceptable

Name of TM Operator: Elvis Poulin

Name of LR Attending Surveyor: Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM8 - Transverse Sections - Longitudinal Strength Assessment

Transverse Section :	No. 3
Frame No. :	Frame No. 135

### Area Assessment of Hull Girder Strength

Zone	Actual (cm <sup>2</sup> )	Rule (cm <sup>2</sup> )	Reduction (%)	Acceptance Criteria (%)
Deck Zone	5385.2	5468.7	1.53	10
Neutral Axis Zone	6002	6125.2	2.01	15
Bottom Zone	9194.6	9495.2	3.17	10

● Non-Acceptable

Name of TM Operator: Elvis Poulin

Name of LR Attending Surveyor: Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## Hatch Covers and Coamings - Hatch No. Other TM Forms



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Hatch No. Other											
Location of Structure :		Hatch Cover Cargo Hold - Fr.154-165											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
Cover - Reading no.1	SK8-A	7.9	30	5.5	8.3	0	0					Port side only	
Cover - Reading no.2	SK8-A	7.9	30	5.5					7.9	0	0		Starboard side only
Cover - Reading no.3	SK8-A	7.9	30	5.5					7.3	0.6	7.59		Starboard side only
Cover - Reading no.4	SK8-A	7.9	30	5.5	7.6	0.3	3.8						Port side only
Cover - Reading no.5	SK8-A	7.9	30	5.5					7.8	0.1	1.27		Starboard side only
Cover - Reading no.6	SK8-A	7.9	30	5.5					7.8	0.1	1.27		Starboard side only
Cover - Reading no.7	SK8-A	7.9	30	5.5	7.6	0.3	3.8						Port side only
Cover - Reading no.8	SK8-A	7.9	30	5.5					7.6	0.3	3.8		Starboard side only
Cover - Reading no.9	SK8-A	7.9	30	5.5					7.6	0.3	3.8		Starboard side only
Cover - Reading no.10	SK8-A	7.9	30	5.5	7.7	0.2	2.53						Port side only
Cover - Reading no.11	SK8-A	7.9	30	5.5					8	0	0		Starboard side only
Cover - Reading no.12	SK8-A	7.9	30	5.5					7.7	0.2	2.53		Starboard side only
Cover sideplate - RDG no.13	SK8-A	9.5	30	6.7	9.3	0.2	2.11						Port side only
Cover sideplate - RDG no.14	SK8-A	9.5	30	6.7	9.1	0.4	4.21						Port side only
Cover sideplate - RDG no.15	SK8-A	9.5	30	6.7	9.3	0.2	2.11						Port side only
Cover sideplate - RDG no.16	SK8-A	9.5	30	6.7	9.3	0.2	2.11						Port side only
Cover sideplate - RDG no.17	SK8-A	9.5	30	6.7	9.1	0.4	4.21						Port side only
Cover sideplate - RDG no.18	SK8-A	9.5	30	6.7					8.6	0.9	9.47		Starboard side only
Cover sideplate - RDG no.19	SK8-A	9.5	30	6.7					9.3	0.2	2.11		Starboard side only
Cover sideplate - RDG no.20	SK8-A	9.5	30	6.7					9.2	0.3	3.16		Starboard side only
Cover sideplate - RDG no.21	SK8-A	9.5	30	6.7					9.2	0.3	3.16		Starboard side only

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier









# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Hatch No. Other											
Location of Structure :		Hatch Coaming Longt.-Aft & Fwd - Inside & outside RDG											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(mm)
Coaming - Outside RDG no.1	SK8-D	9.5	30	6.7	7.3	2.2	23.16					Port side only	
Coaming - Outside RDG no.2	SK8-D	9.5	30	6.7					9.2	0.3	3.16		Starboard side only
Coaming - Outside RDG no.3	SK8-D	9.5	30	6.7					9.6	0	0		Starboard side only
Coaming - Outside RDG no.4	SK8-D	9.5	30	6.7					9.1	0.4	4.21		Starboard side only
Coaming - Outside RDG no.5	SK8-D	9.5	30	6.7					8.4	1.1	11.58		Starboard side only
Coaming - Outside RDG no.6	SK8-D	9.5	30	6.7					9.7	0	0		Starboard side only
Coaming - Outside RDG no.7	SK8-D	9.5	30	6.7					8.1	1.4	14.74		Starboard side only
Coaming - Outside RDG no.8	SK8-D	9.5	30	6.7	7.5	2	21.05						Port side only
Coaming - Outside RDG no.9	SK8-D	9.5	30	6.7	9.6	0	0						Port side only
Coaming - Outside RDG no.10	SK8-D	9.5	30	6.7	9.2	0.3	3.16						Port side only
Coaming - Outside RDG no.11	SK8-D	9.5	30	6.7	8.5	1	10.53						Port side only
Coaming - inside/upper RDG A	SK8-D	9.5	30	6.7	8.5	1	10.53						Port side only
Coaming - inside/lower RDG A	SK8-D	9.5	30	6.7	9	0.5	5.26						Port side only
Coaming - inside/upper RDG B	SK8-D	9.5	30	6.7	6.7	2.8	29.47						Port side only
Coaming - inside/lower RDG B	SK8-D	9.5	30	6.7	8.6	0.9	9.47						Port side only
Coaming - inside/upper RDG B1	SK8-D	9.5	30	6.7	7.1	2.4	25.26						Port side only
Coaming - inside/upper RDG B2	SK8-D	9.5	30	6.7	8.1	1.4	14.74						Port side only
Coaming - inside/upper RDG C	SK8-D	9.5	30	6.7	7.5	2	21.05						Centerline RDG
Coaming - inside/lower RDG C	SK8-D	9.5	30	6.7	8.6	0.9	9.47						Centerline RDG
Coaming - inside/upper RDG D	SK8-D	9.5	30	6.7					7.2	2.3	24.21		Starboard side only
Coaming - inside/lower RDG D	SK8-D	9.5	30	6.7					8.5	1	10.53		Starboard side only

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :					Hatch No. Other								
Location of Structure :					Hatch Coaming Longt.-Aft & Fwd - Inside & outside RDG								
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(mm)
Coaming - inside/upper RDG E	SK8-D	9.5	30	6.7				8.9	0.6	6.32		Starboard side only	
Coaming - inside/lower RDG E	SK8-D	9.5	30	6.7				9.3	0.2	2.11		Starboard side only	
Coaming - inside/upper RDG F	SK8-D	9.5	30	6.7				7.8	1.7	17.89		Starboard side only	
Coaming - inside/lower RDG F	SK8-D	9.5	30	6.7				8.5	1	10.53		Starboard side only	
Coaming - inside/upper RDG G	SK8-D	9.5	30	6.7				7.9	1.6	16.84		Starboard side only	
Coaming - inside/lower RDG G	SK8-D	9.5	30	6.7				8.6	0.9	9.47		Starboard side only	
Coaming - inside/upper RDG H	SK8-D	9.5	30	6.7				9.4	0.1	1.05		Starboard side only	
Coaming - inside/lower RDG H	SK8-D	9.5	30	6.7				9.3	0.2	2.11		Starboard side only	
Coaming - inside/upper RDG I	SK8-D	9.5	30	6.7				9.7	0	0		Starboard side only	
Coaming - inside/lower RDG I	SK8-D	9.5	30	6.7				9.4	0.1	1.05		Starboard side only	
Coaming - inside/upper RDG J	SK8-D	9.5	30	6.7				9.4	0.1	1.05		Starboard side only	
Coaming - inside/lower RDG J	SK8-D	9.5	30	6.7				9.5	0	0		Starboard side only	
Coaming - inside/upper RDG K	SK8-D	9.5	30	6.7				8.1	1.4	14.74		Starboard side only	
Coaming - inside/lower RDG K	SK8-D	9.5	30	6.7				9.5	0	0		Starboard side only	
Coaming - inside/upper RDG L	SK8-D	9.5	30	6.7				9.2	0.3	3.16		Starboard side only	
Coaming - inside/lower RDG L	SK8-D	9.5	30	6.7				9	0.5	5.26		Starboard side only	
Coaming - inside/upper RDG M	SK8-D	9.5	30	6.7				9.3	0.2	2.11		Centerline RDG	
Coaming - inside/lower RDG M	SK8-D	9.5	30	6.7				8.6	0.9	9.47		Centerline RDG	
Coaming - inside/upper RDG N	SK8-D	9.5	30	6.7	8.8	0.7	7.37					Port side only	
Coaming - inside/lower RDG N	SK8-D	9.5	30	6.7	8.4	1.1	11.58					Port side only	
Coaming - inside/upper RDG O	SK8-D	9.5	30	6.7	8.8	0.7	7.37					Port side only	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





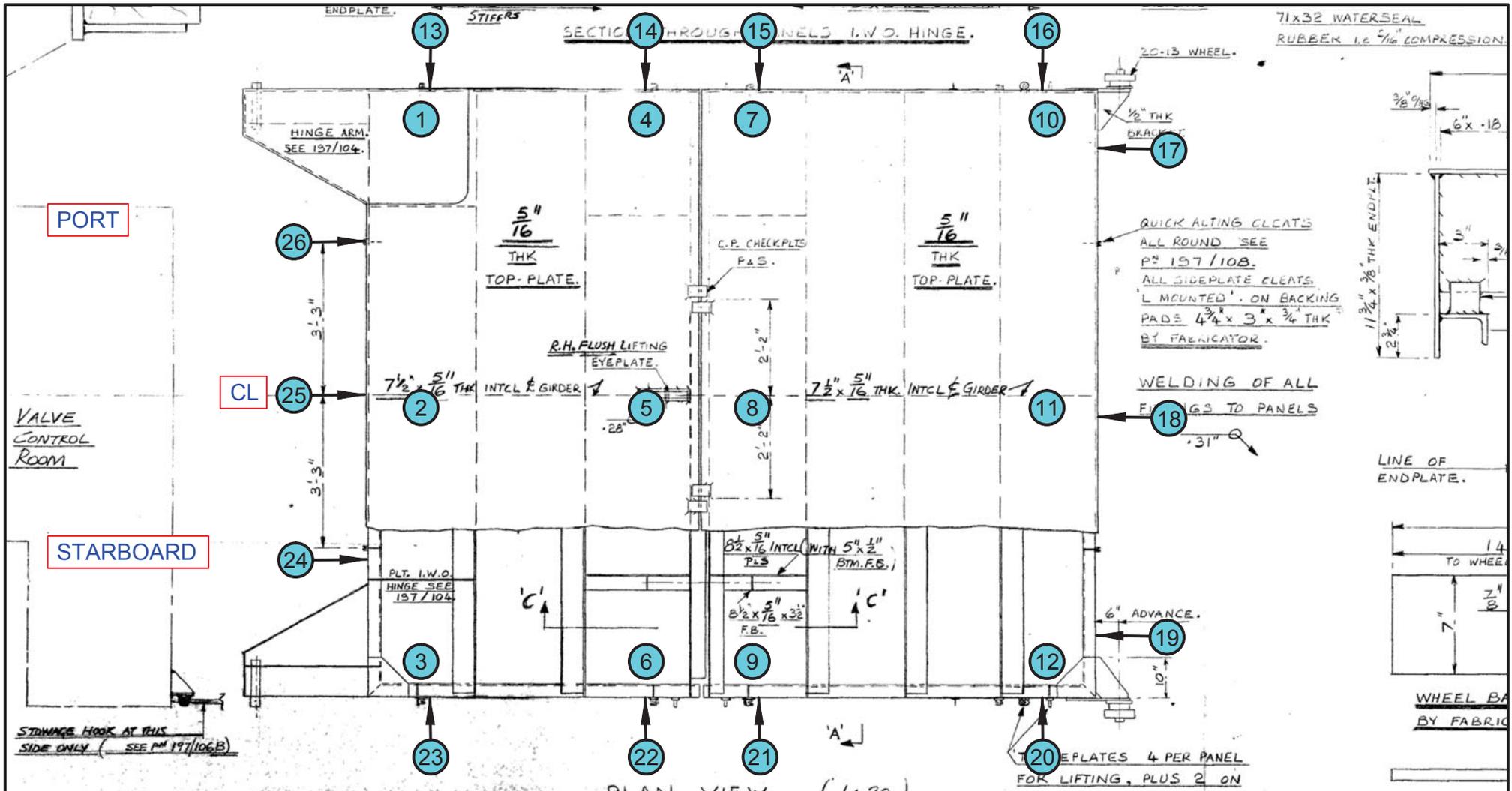
# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## Hatch Covers and Coamings - Hatch No. Other TM Sketches

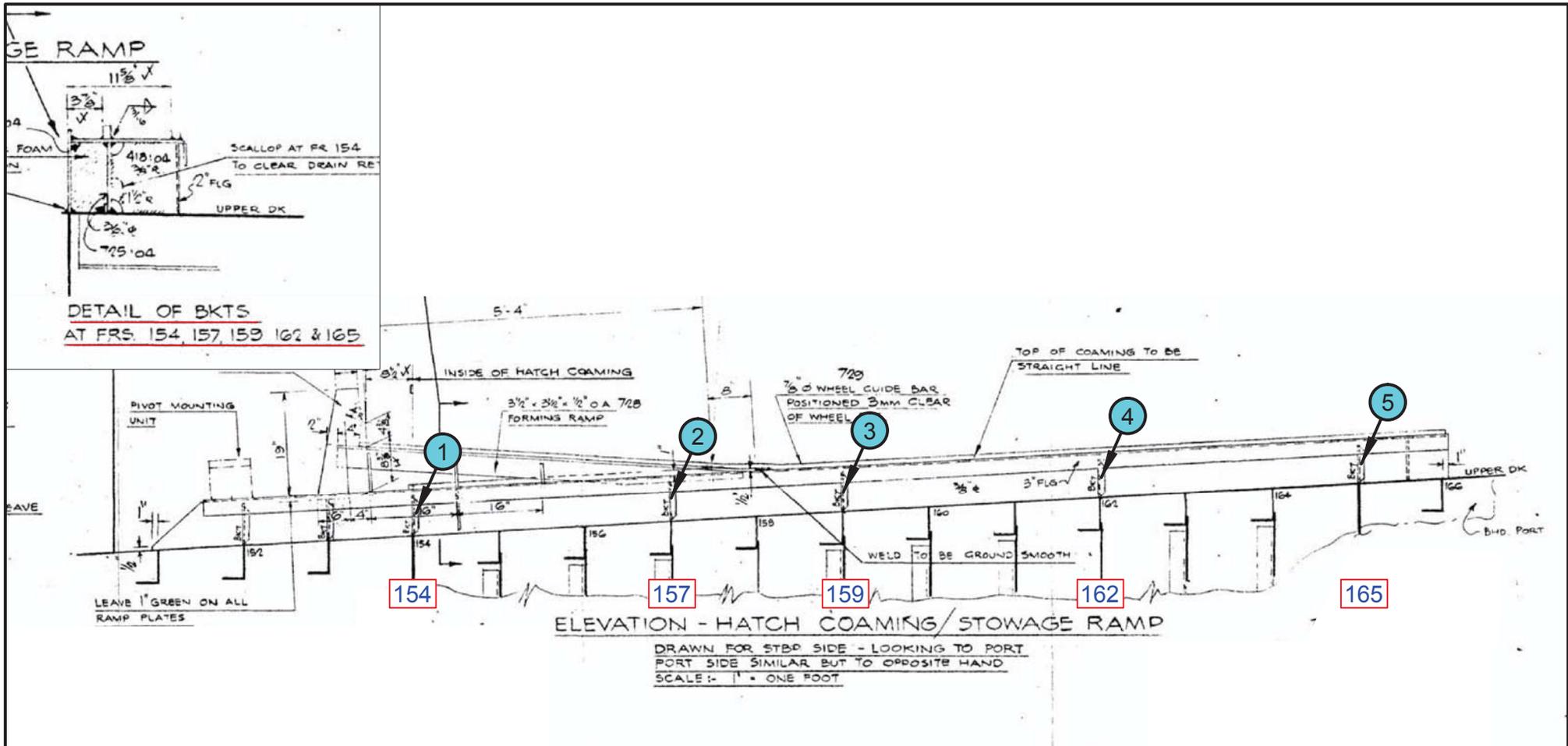


Projet / Project  
 N.G.C.C. Amundsen  
 Titre / Title  
 Panneaux d'écouille - Pont supérieur (Hatch cover - Upper deck) - SK8-A  
 Client / Customer  
 Travaux Publics et Services gouvernementaux Canada  
 Préparé par / Prepared by  
 Elvis Poulin

Echelle / Scale  
 Non à l'échelle  
 Feuille / Sheet #  
 1 de 4  
 Format / Size  
 Ansi A (H)



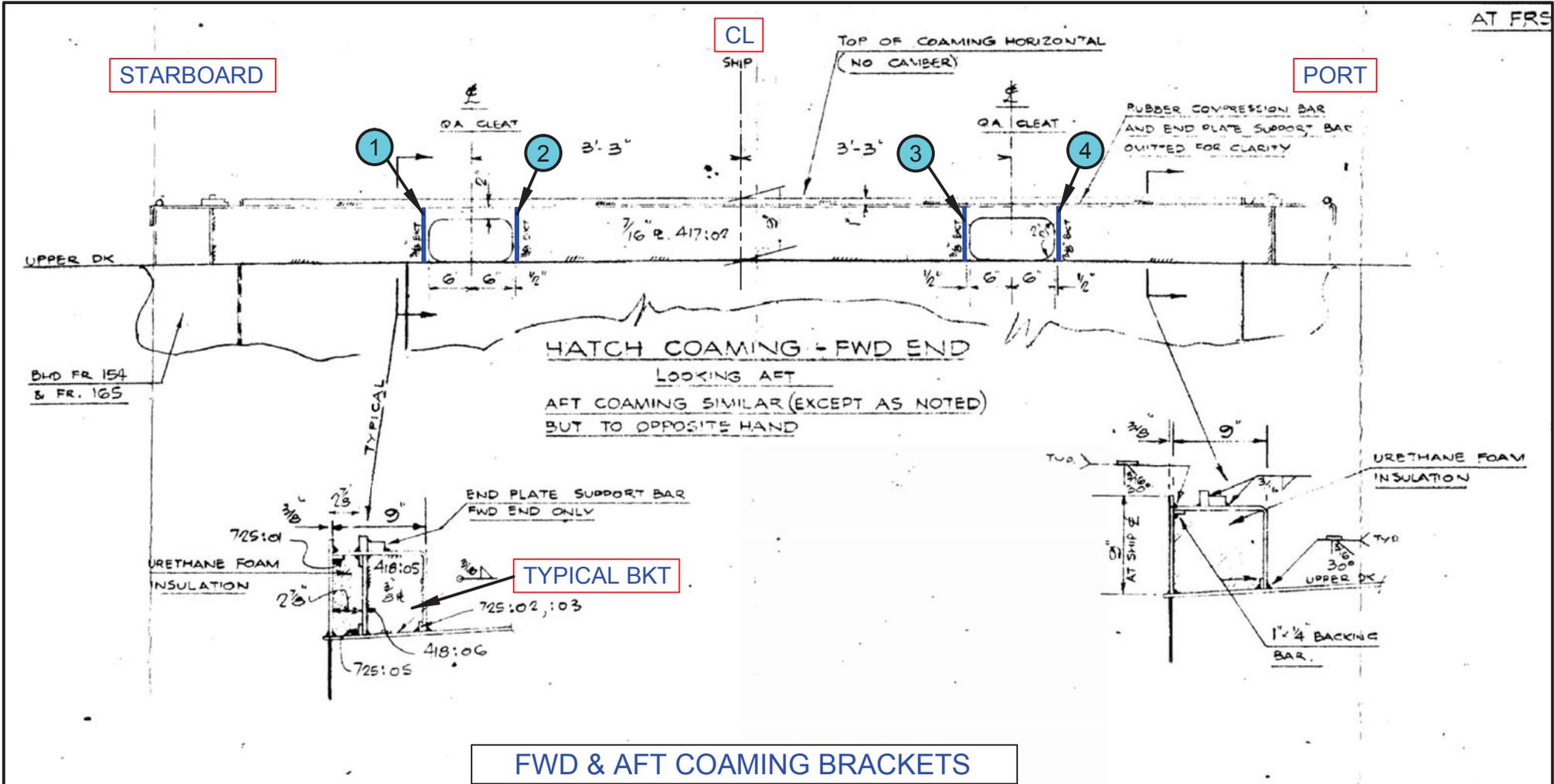
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 Rév. / Rev. #  
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**LONGT.COAMING BKTS - fr.154 TO 165**

Projet / Project N.G.C.C. Amundsen		Echelle / Scale Non à l'échelle	 <p><b>INSPECTION PGL</b> 8629331 CANADA INC.</p>
Titre / Title Goussets surbaux d'écouille - Pont supérieur (Hatch coaming bkts -Upper deck) - SK8-B		Feuille / Sheet # 2 de 4	
Client / Customer Travaux Publics et Services gouvernementaux Canada		Format / Size Ansi A (H)	
Préparé par / Prepared by Elvis Poulin	Date 2017/12/14	Dessin / Drawing # PGL-131-2017-A_utm report_hatch coaming_Amundsen_20171214.dwg	





Projet / Project  
N.G.C.C. Amundsen

Titre / Title  
Goussets surbaux d'écouille - Pont supérieur (Hatch coaming bkts -Upper deck) - SK8-C

Client / Customer  
Travaux Publics et Services gouvernementaux Canada

Préparé par / Prepared by  
Elvis Poulin

Date  
2017/12/19

Dessin / Drawing #  
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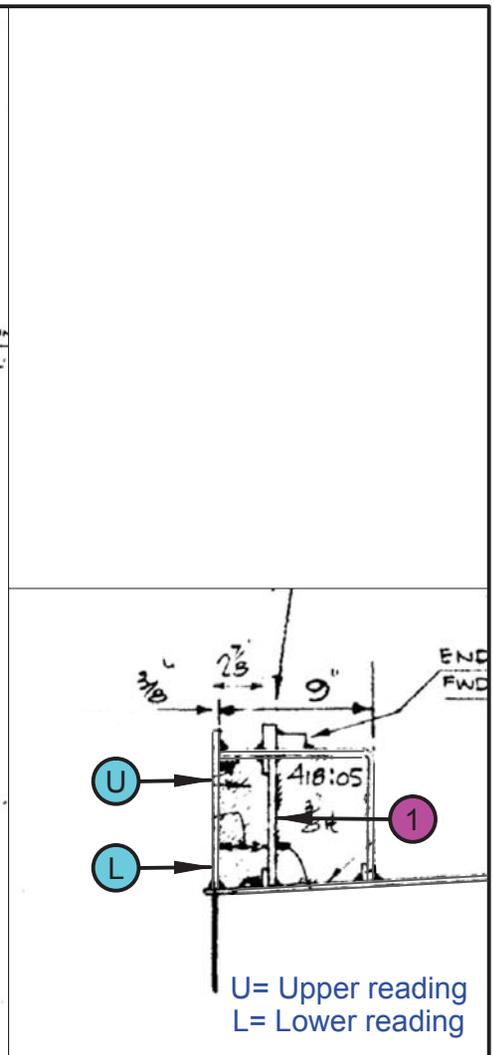
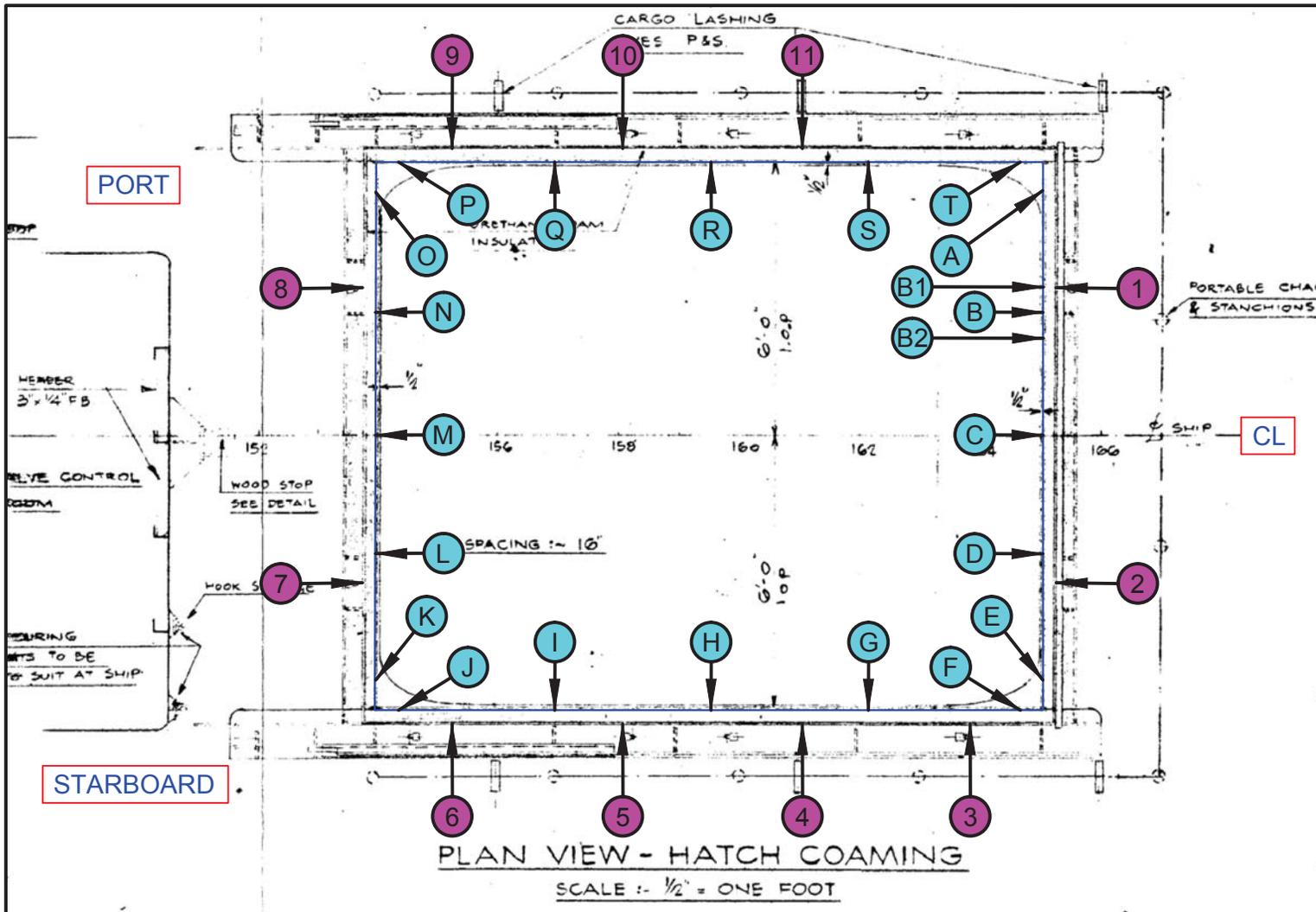
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Format / Size  
Ansi A (H)



Rév. / Rev. #  
0





Projet / Project N.G.C.C. Amundsen	
Titre / Title Surbaux d'écouille - Pont supérieur (Hatch coaming - Upper deck) - SK8-D	
Client / Customer Travaux Publics et Services gouvernementaux Canada	
Préparé par / Prepared by Elvis Poulin	Date / Dessin / Drawing # 2017/12/19 PGL-131-2017-A_utm report_hatch coaming_Amundsen_20171214.dwg

Echelle / Scale Non à l'échelle
Feuille / Sheet # 4 de 4
Format / Size Ansi A (H)



Rév. / Rev. #  
0



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## Wind and Water Strakes - Wind and Water Strakes Plating

### TM Forms



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Wind and Water Strakes Plating										
Strake Position :					Strake H (sheer strake)										
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading								Mean Diminution (%)	Comments	
					Forward			Aft							
					Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)			
10th Fwd															
9th Fwd															
8th Fwd															
7th Fwd															
6th Fwd															
5th Fwd															
4th Fwd (H10)	SK2	42.9	30	30	43.2	0	0		43.3	0	0		0		
3rd Fwd (H9)	SK2	42.9	30	30	38.3	4.6	10.72		41.7	1.2	2.8		6.76		
2nd Fwd (H8)	SK2	42.9	30	30	41	1.9	4.43		40.4	2.5	5.83		5.13		
1st Fwd (H7)	SK2	42.9	30	30	40.2	2.7	6.29		40.1	2.8	6.53		6.41		
Amidships (H6)	SK2	42.9	30	30	40.5	2.4	5.59		39.7	3.2	7.46		6.53		
1st Aft (H5)	SK2	38.1	30	26.7	36.8	1.3	3.41		36.9	1.2	3.15		3.28		
2nd Aft (H4)	SK2	38.1	30	26.7	36.9	1.2	3.15		36.8	1.3	3.41		3.28		
3rd Aft (H3)	SK2	38.1	30	26.7	37.3	0.8	2.1		37.2	0.9	2.36		2.23		
4th Aft (H2)	SK2	38.1	30	26.7	36.4	1.7	4.46		36.3	1.8	4.72		4.59		
5th Aft (H1)	SK2	38.1	30	26.7	37.4	0.7	1.84		38	0.1	0.26		1.05		
6th Aft															
7th Aft															
8th Aft															
9th Aft															
10th Aft															

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Wind and Water Strakes Plating										
Strake Position :					Strake H (sheer strake)										
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Starboard Reading								Mean Diminution (%)	Comments	
					Forward			Aft			Gauged Thickness (mm)	Mean Diminution (%)			
					Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm) (%)					Thickness As Renewed (mm)
10th Fwd															
9th Fwd															
8th Fwd															
7th Fwd															
6th Fwd															
5th Fwd															
4th Fwd (H10)	SK2	42.9	30	30	43.4	0	0		43.2	0	0		0		
3rd Fwd (H9)	SK2	42.9	30	30	42.4	0.5	1.17		41.8	1.1	2.56		1.86		
2nd Fwd (H8)	SK2	42.9	30	30	42	0.9	2.1		40	2.9	6.76		4.43		
1st Fwd (H7)	SK2	42.9	30	30	41	1.9	4.43		41.8	1.1	2.56		3.5		
Amidships (H6)	SK2	42.9	30	30	40.3	2.6	6.06		41.5	1.4	3.26		4.66		
1st Aft (H5)	SK2	38.1	30	26.7	36.5	1.6	4.2		36.6	1.5	3.94		4.07		
2nd Aft (H4)	SK2	38.1	30	26.7	36.2	1.9	4.99		36.8	1.3	3.41		4.2		
3rd Aft (H3)	SK2	38.1	30	26.7	36.8	1.3	3.41		37.8	0.3	0.79		2.1		
4th Aft (H2)	SK2	38.1	30	26.7	36.4	1.7	4.46		37.4	0.7	1.84		3.15		
5th Aft (H1)	SK2	38.1	30	26.7	38.9	0	0		38.7	0	0		0		
6th Aft															
7th Aft															
8th Aft															
9th Aft															
10th Aft															

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Wind and Water Strakes Plating									
Strake Position :					Strake G									
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading								Mean Diminution (%)	Comments
					Forward			Aft						
					Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)		
13th Fwd (FW117)	SK2	42.9	30	30	43.4	0	0		43.3	0	0		0	
12th Fwd (FW110)	SK2	42.9	30	30	42.8	0.1	0.23		39.4	3.5	8.16		4.2	
11th Fwd (FW113)	SK2	42.9	30	30	47.2	0	0		46.7	0	0		0	
10th Fwd (FW109)	SK2	42.9	30	30	42.2	0.7	1.63		44.6	0	0		0.82	
9th Fwd (FW112)	SK2	42.9	30	30	42.8	0.1	0.23		42.9	0	0		0.12	
8th Fwd (FW128)	SK2	42.9	30	30	39	3.9	9.09		38.6	4.3	10.02		9.56	
7th Fwd (FW129)	SK2	42.9	30	30	41.7	1.2	2.8		42.3	0.6	1.4		2.1	
6th Fwd (FW125)	SK2	42.9	30	30	41.2	1.7	3.96		38.6	4.3	10.02		6.99	
5th Fwd (FW126)	SK2	42.9	30	30	41.9	1	2.33		39.7	3.2	7.46		4.9	
4th Fwd (G10)	SK2	46.5	30	32.6	41.6	4.9	10.54		43.7	2.8	6.02		8.28	
3rd Fwd (G9)	SK2	42.9	30	30	39.3	3.6	8.39		40.4	2.5	5.83		7.11	
2nd Fwd (G8)	SK2	42.9	30	30	37.4	5.5	12.82		38.5	4.4	10.26		11.54	
1st Fwd (G7)	SK2	42.9	30	30	39.9	3	6.99		41	1.9	4.43		5.71	
Amidships (G6)	SK2	42.9	30	30	41.7	1.2	2.8		42	0.9	2.1		2.45	
1st Aft (G5)	SK2	38.1	30	26.7	36.1	2	5.25		36.4	1.7	4.46		4.86	
2nd Aft (G4)	SK2	38.1	30	26.7	35	3.1	8.14		36.6	1.5	3.94		6.04	
3rd Aft (G3)	SK2	38.1	30	26.7	36.8	1.3	3.41		36.5	1.6	4.2		3.81	
4th Aft (G2)	SK2	38.1	30	26.7	36.1	2	5.25		36.2	1.9	4.99		5.12	
5th Aft (G1)	SK2	38.1	30	26.7	36.9	1.2	3.15		37.2	0.9	2.36		2.76	
6th Aft (AF104)	SK2	38.1	30	26.7	35.5	2.6	6.82		37.1	1	2.62		4.72	
7th Aft (AF103)	SK2	38.1	30	26.7	37.5	0.6	1.57		36.9	1.2	3.15		2.36	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Wind and Water Strakes Plating										
Strake Position :					Strake G										
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Starboard Reading								Mean Diminution (%)	Comments	
					Forward			Aft			Gauged Thickness (mm)	Thickness As Renewed (mm)			Mean Diminution (%)
					Gauged Thickness (mm)	Diminution (mm) (%)		Gauged Thickness (mm)	Diminution (mm) (%)						
13th Fwd (FW117)	SK2	42.9	30	30	43.5	0	0		43.3	0	0		0		
12th Fwd (FW110)	SK2	42.9	30	30	39.7	3.2	7.46		39.5	3.4	7.93		7.69		
11th Fwd (FW113)	SK2	42.9	30	30	47.6	0	0		46.6	0	0		0		
10th Fwd (FW109)	SK2	42.9	30	30	44.2	0	0		44.5	0	0		0		
9th Fwd (FW112)	SK2	42.9	30	30	42.5	0.4	0.93		42.8	0.1	0.23		0.58		
8th Fwd (FW128)	SK2	42.9	30	30	38.6	4.3	10.02		36.4	6.5	15.15		12.59		
7th Fwd (FW129)	SK2	42.9	30	30	41.8	1.1	2.56		41.9	1	2.33		2.45		
6th Fwd (FW125)	SK2	42.9	30	30	39.1	3.8	8.86		38.8	4.1	9.56		9.21		
5th Fwd (FW126)	SK2	42.9	30	30	41.3	1.6	3.73		41.1	1.8	4.2		3.96		
4th Fwd (G10)	SK2	46.5	30	32.6	42.1	4.4	9.46		41.5	5	10.75		10.11		
3rd Fwd (G9)	SK2	42.9	30	30	37.3	5.6	13.05		40.4	2.5	5.83		9.44		
2nd Fwd (G8)	SK2	42.9	30	30	39	3.9	9.09		41.3	1.6	3.73		6.41		
1st Fwd (G7)	SK2	42.9	30	30	41.4	1.5	3.5		41.9	1	2.33		2.91		
Amidships (G6)	SK2	42.9	30	30	39.4	3.5	8.16		41.2	1.7	3.96		6.06		
1st Aft (G5)	SK2	38.1	30	26.7	36.8	1.3	3.41		36.3	1.8	4.72		4.07		
2nd Aft (G4)	SK2	38.1	30	26.7	36.3	1.8	4.72		36.3	1.8	4.72		4.72		
3rd Aft (G3)	SK2	38.1	30	26.7	36.3	1.8	4.72		36.4	1.7	4.46		4.59		
4th Aft (G2)	SK2	38.1	30	26.7	35.6	2.5	6.56		35.7	2.4	6.3		6.43		
5th Aft (G1)	SK2	38.1	30	26.7	37.4	0.7	1.84		36.5	1.6	4.2		3.02		
6th Aft (AF104)	SK2	38.1	30	26.7	36	2.1	5.51		37.6	0.5	1.31		3.41		
7th Aft (AF103)	SK2	38.1	30	26.7	36.4	1.7	4.46		35.9	2.2	5.77		5.12		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier







# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Wind and Water Strakes Plating										
Strake Position :					Strake F										
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading								Mean Diminution (%)	Comments	
					Forward			Aft							
					Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm) (%)		Thickness As Renewed (mm)			
10th Fwd															
9th Fwd (FW108)	SK2	42.9	30	30	42.3	0.6	1.4		43.8	0	0		0.7		
8th Fwd (FW111)	SK2	42.9	30	30	44.2	0	0		43.6	0	0		0		
7th Fwd (FW105)	SK2	42.9	30	30	37.7	5.2	12.12		38.7	4.2	9.79		10.96		
6th Fwd (FW104)	SK2	42.9	30	30	40	2.9	6.76		40.8	2.1	4.9		5.83		
5th Fwd (F11)	SK2	46.5	30	32.6	44	2.5	5.38		43.9	2.6	5.59		5.48		
4th Fwd (F10)	SK2	42.9	30	30	41.4	1.5	3.5		40.8	2.1	4.9		4.2		
3rd Fwd (F9)	SK2	42.9	30	30	41.8	1.1	2.56		39.2	3.7	8.62		5.59		
2nd Fwd (F8)	SK2	42.9	30	30	42.2	0.7	1.63		41.8	1.1	2.56		2.1		
1st Fwd (F7)	SK2	42.9	30	30	40.8	2.1	4.9		43.8	0	0		2.45		
Amidships (F6)	SK2	50.8	30	35.6	49.4	1.4	2.76		50.1	0.7	1.38		2.07		
1st Aft (F5)	SK2	38.1	30	26.7	36.5	1.6	4.2		36.3	1.8	4.72		4.46		
2nd Aft (F4)	SK2	38.1	30	26.7	37.5	0.6	1.57		37	1.1	2.89		2.23		
3rd Aft (F3a)	SK2	50.8	30	35.6										Starboard side only	
4th Aft (F3)	SK2	38.1	30	26.7	37.6	0.5	1.31		37.3	0.8	2.1		1.71		
5th Aft (F2)	SK2	38.1	30	26.7	37	1.1	2.89		37.2	0.9	2.36		2.62		
6th Aft (F1)	SK2	38.1	30	26.7	38.3	0	0		37.2	0.9	2.36		1.18		
7th Aft (AF116)	SK2	38.1	30	26.7	37.3	0.8	2.1		37.1	1	2.62		2.36		
8th Aft (AF111)	SK2	38.1	30	26.7	35.5	2.6	6.82		33.1	5	13.12		9.97		
9th Aft (AF110)	SK2	38.1	30	26.7	37.7	0.4	1.05		37.8	0.3	0.79		0.92		
10th Aft (AF123)	SK2	38.1	30	26.7	37.8	0.3	0.79		37.4	0.7	1.84		1.31		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :					Wind and Water Strakes Plating										
Strake Position :					Strake F										
Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Starboard Reading								Mean Diminution (%)	Comments	
					Forward			Aft			Gauged Thickness (mm)	Mean Diminution (%)			Thickness As Renewed (mm)
					Gauged Thickness (mm)	Diminution (mm) (%)		Gauged Thickness (mm)	Diminution (mm) (%)						
10th Fwd															
9th Fwd (FW108)	SK2	42.9	30	30	41.6	1.3	3.03		43.9	0	0		1.52		
8th Fwd (FW111)	SK2	42.9	30	30	44.6	0	0		43.2	0	0		0		
7th Fwd (FW105)	SK2	42.9	30	30	38.3	4.6	10.72		39.3	3.6	8.39		9.56		
6th Fwd (FW104)	SK2	42.9	30	30	40.9	2	4.66		40.4	2.5	5.83		5.24		
5th Fwd (F11)	SK2	46.5	30	32.6	43.3	3.2	6.88		44.6	1.9	4.09		5.48		
4th Fwd (F10)	SK2	42.9	30	30	39.2	3.7	8.62		40.8	2.1	4.9		6.76		
3rd Fwd (F9)	SK2	42.9	30	30	41.6	1.3	3.03		41.1	1.8	4.2		3.61		
2nd Fwd (F8)	SK2	42.9	30	30	41.8	1.1	2.56		41.5	1.4	3.26		2.91		
1st Fwd (F7)	SK2	42.9	30	30	41.8	1.1	2.56		42	0.9	2.1		2.33		
Amidships (F6)	SK2	50.8	30	35.6	50.3	0.5	0.98		50.3	0.5	0.98		0.98		
1st Aft (F5)	SK2	38.1	30	26.7	37.2	0.9	2.36		36.3	1.8	4.72		3.54		
2nd Aft (F4)	SK2	38.1	30	26.7	36.5	1.6	4.2		36.7	1.4	3.67		3.94		
3rd Aft (F3a)	SK2	50.8	30	35.6	50.5	0.3	0.59		49.7	1.1	2.17		1.38	Starboard side only	
4th Aft (F3)	SK2	38.1	30	26.7	37.8	0.3	0.79		37.7	0.4	1.05		0.92		
5th Aft (F2)	SK2	38.1	30	26.7	37.8	0.3	0.79		37.5	0.6	1.57		1.18		
6th Aft (F1)	SK2	38.1	30	26.7	37	1.1	2.89		37.4	0.7	1.84		2.36		
7th Aft (AF116)	SK2	38.1	30	26.7	37.9	0.2	0.52		36.1	2	5.25		2.89		
8th Aft (AF111)	SK2	38.1	30	26.7	36.2	1.9	4.99		36.9	1.2	3.15		4.07		
9th Aft (AF110)	SK2	38.1	30	26.7	36.1	2	5.25		37.6	0.5	1.31		3.28		
10th Aft (AF123)	SK2	38.1	30	26.7	37.4	0.7	1.84		36.2	1.9	4.99		3.41		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



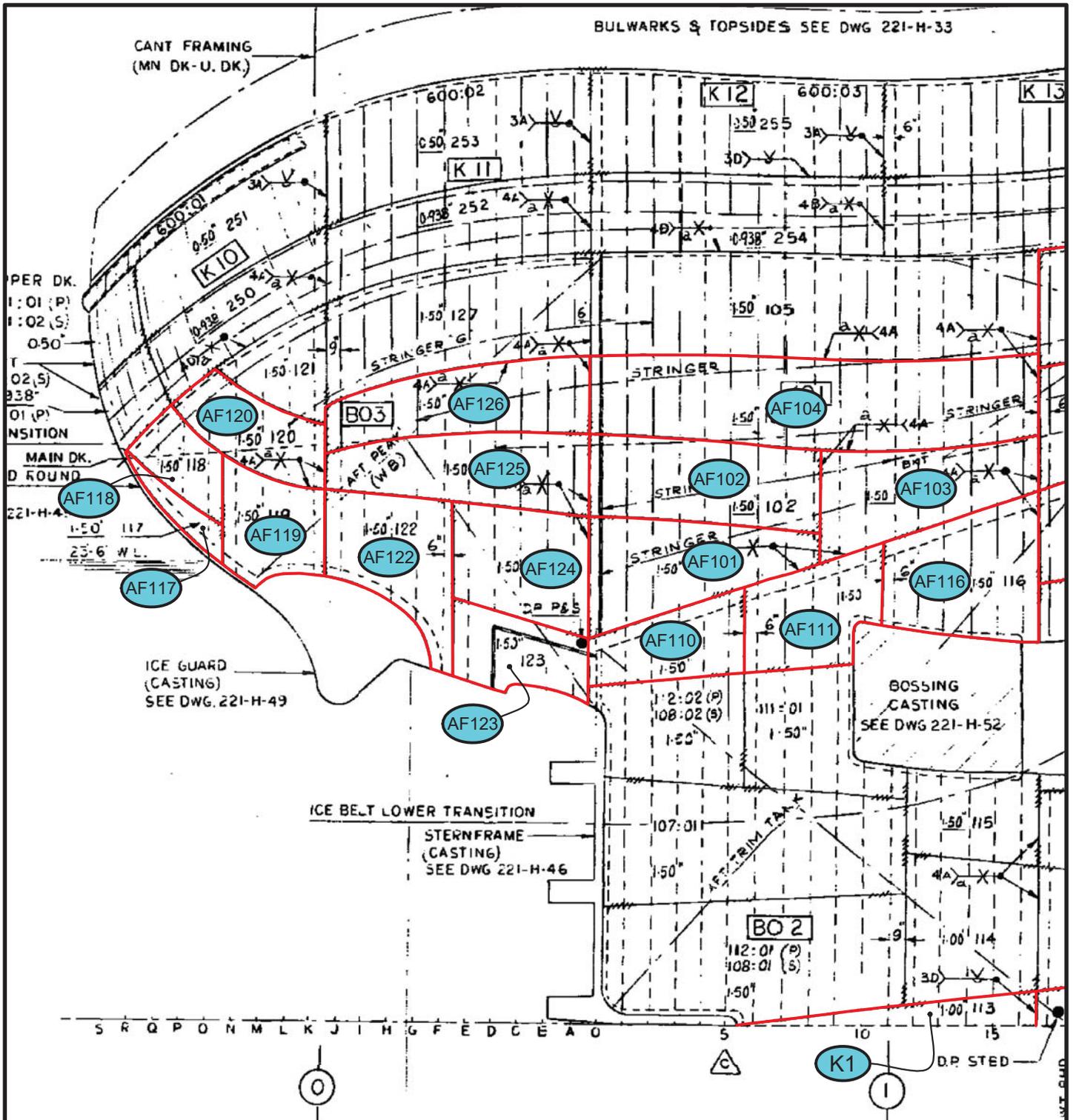
# Thickness Measurement Report

Ship's Name : Amundsen

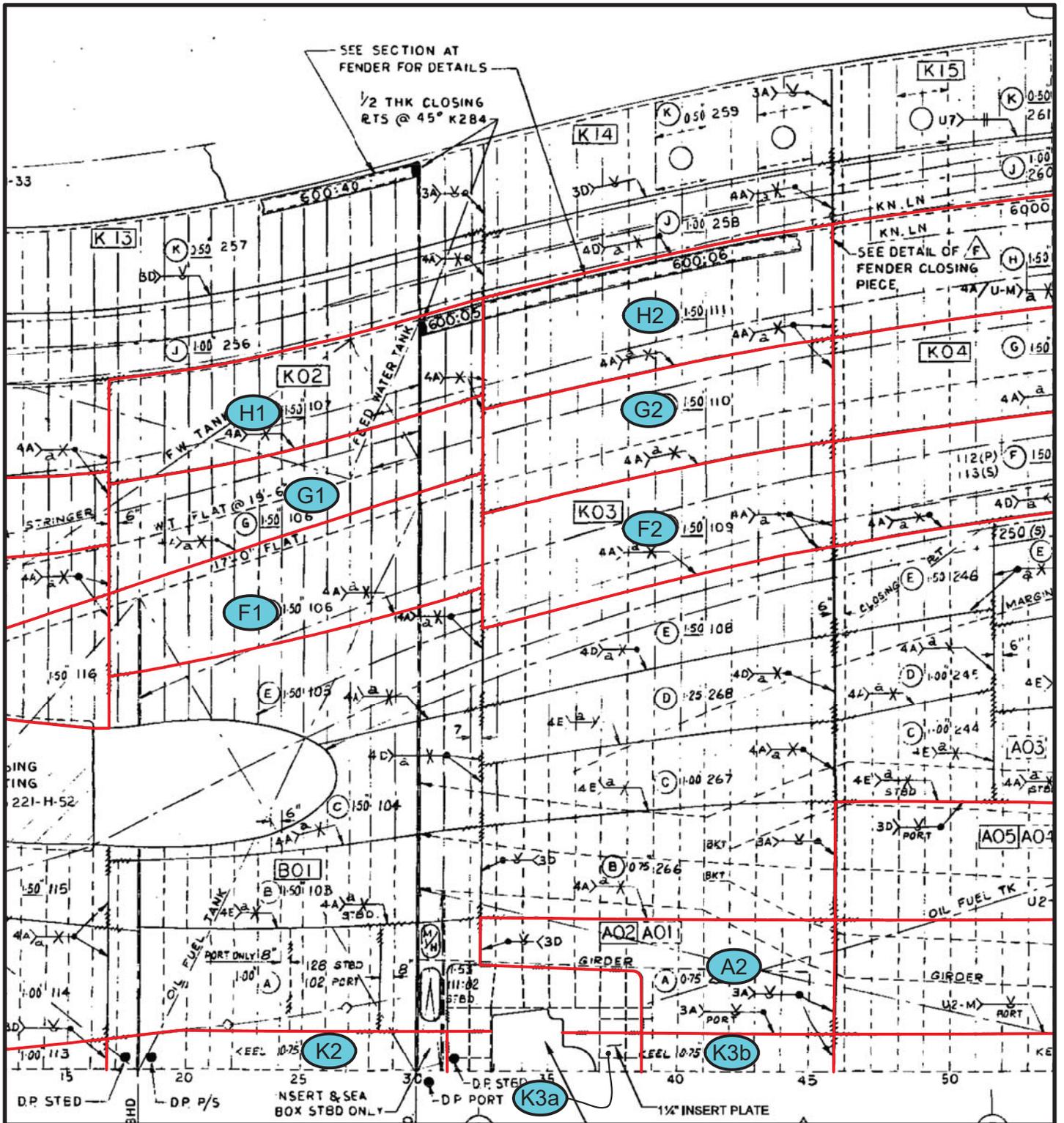
LR/IMO Number : 7510846

TM Report No : MTL1700708

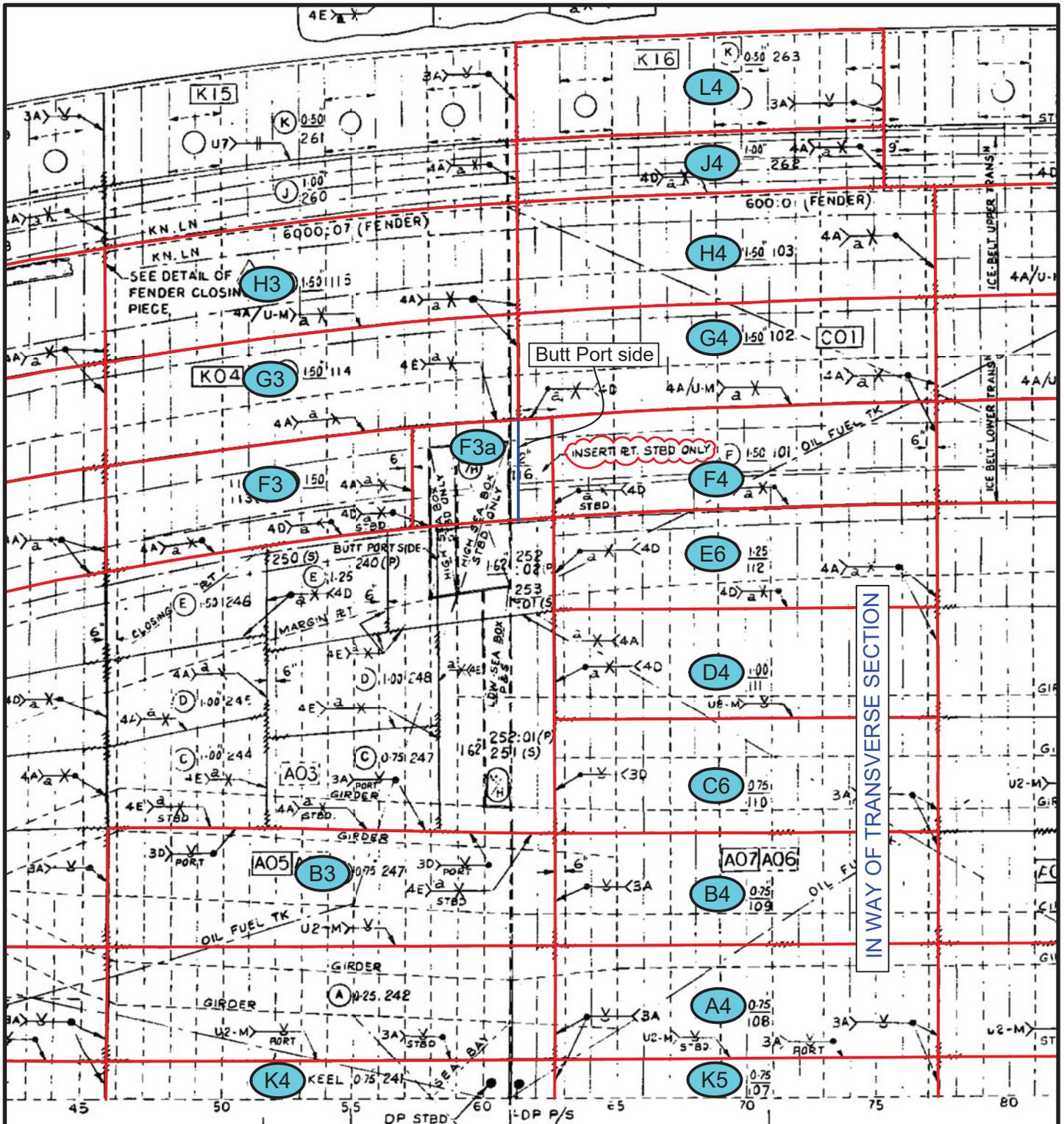
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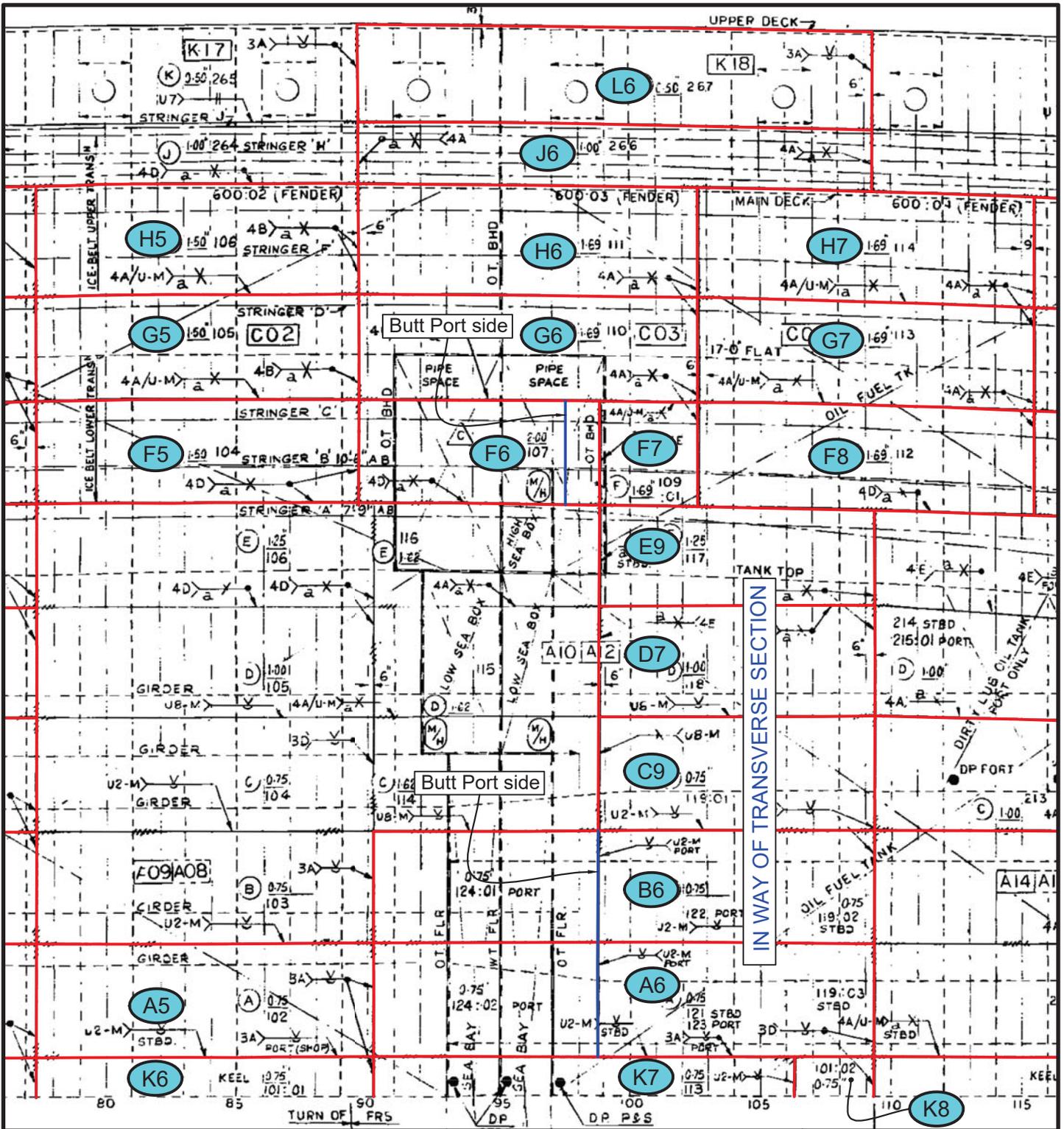
Projet / Project		 <b>INSPECTION PGL</b> <small>9629331 CANADA INC.</small>	
N.G.C.C. Amundsen			
Titre / Title			
Plaques de bordé (shell plates) - SK2			
Client / Customer			
Travaux Publics et Services gouvernementaux Canada			
Préparé par / Prepared by	Date	Echelle / Scale	Feuille / Sheet #
Annie Truchon	2017/12/13	Non à l'échelle	1 de 7
Format / Size		Format / Size	
Ansi A (V)		Ansi A (V)	
Dessin / Drawing #		Rév. / Rev. #	
PGL-131-2017-A_utm report_shell_Amundsen_20171213.dwg		0	



Projet / Project N.G.C.C. Amundsen				
Titre / Title Plaques de bordé (shell plates) - SK2				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Annie Truchon	Date 2017/12/15	Echelle / Scale Non à l'échelle	Feuille / Sheet # 2 de 7	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_shell_Amundsen_20171213.dwg			Rév. / Rev. # 0	

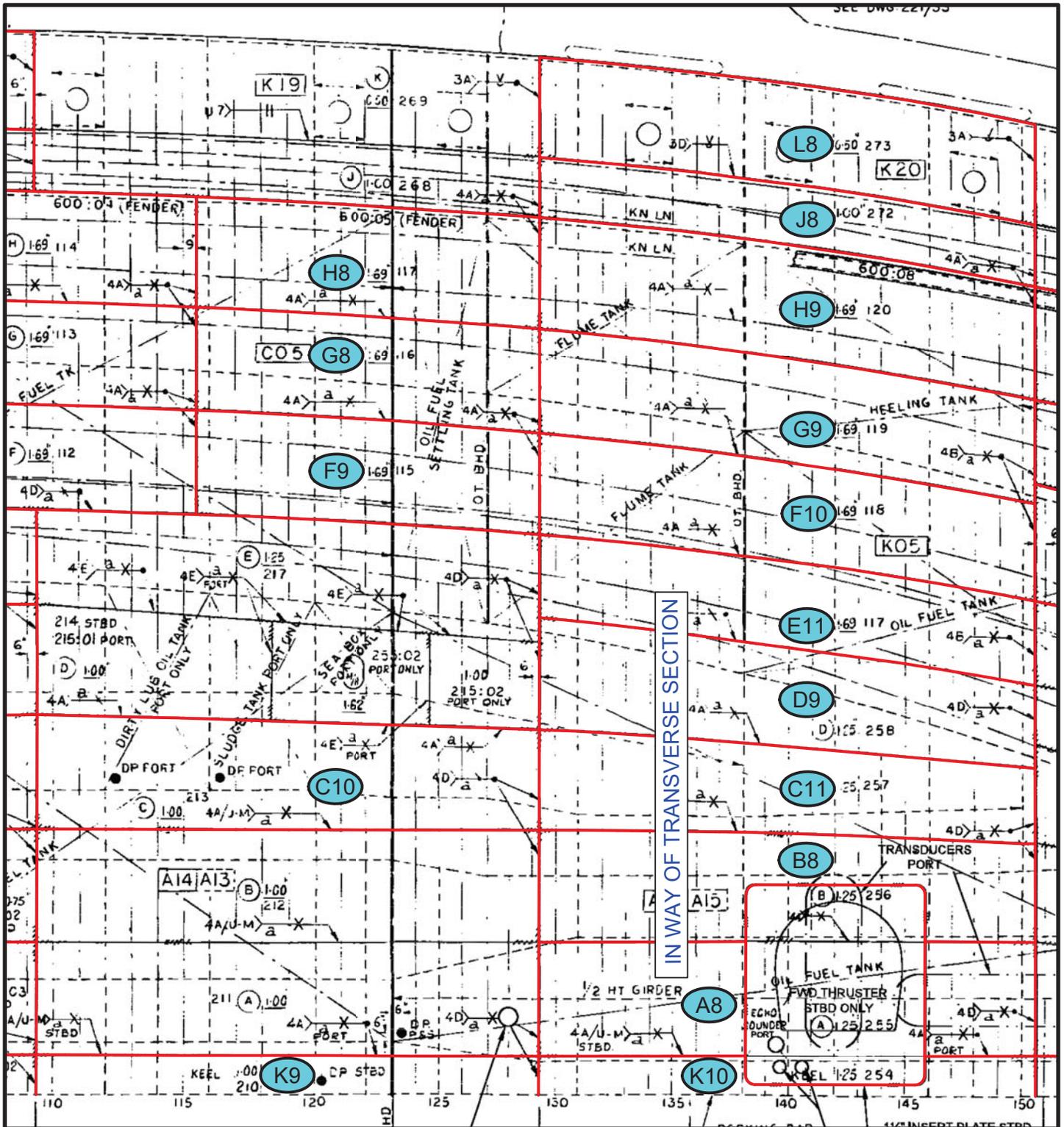


Projet / Project N.G.C.C. Amundsen				
Titre / Title Plaques de bordé (shell plates) - SK2				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
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Dessin / Drawing # PGL-131-2017-A_utm report_shell_Amundsen_20171213.dwg			Rév. / Rev. # 0	



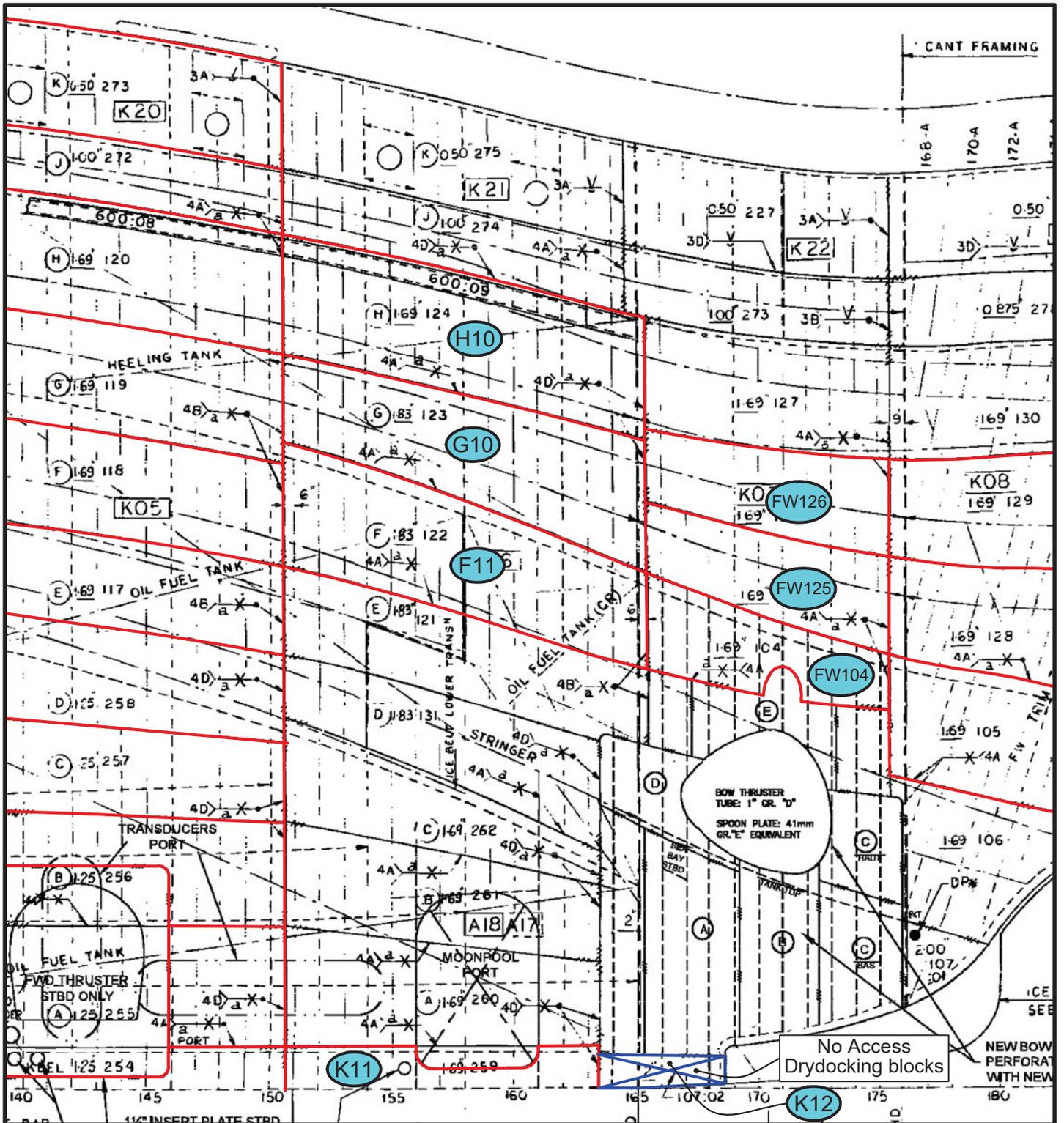
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Titre / Title Plaques de bordé (shell plates) - SK2			
Client / Customer Travaux Publics et Services gouvernementaux Canada			
Préparé par / Prepared by Annie Truchon	Date 2017/12/15	Echelle / Scale Non à l'échelle	Feuille / Sheet # 4 de 7
Dessin / Drawing # PGL-131-2017-A_utm report_shell_Amundsen_20171213.dwg			Format / Size Ansi A (V)
			Rév. / Rev. # 0



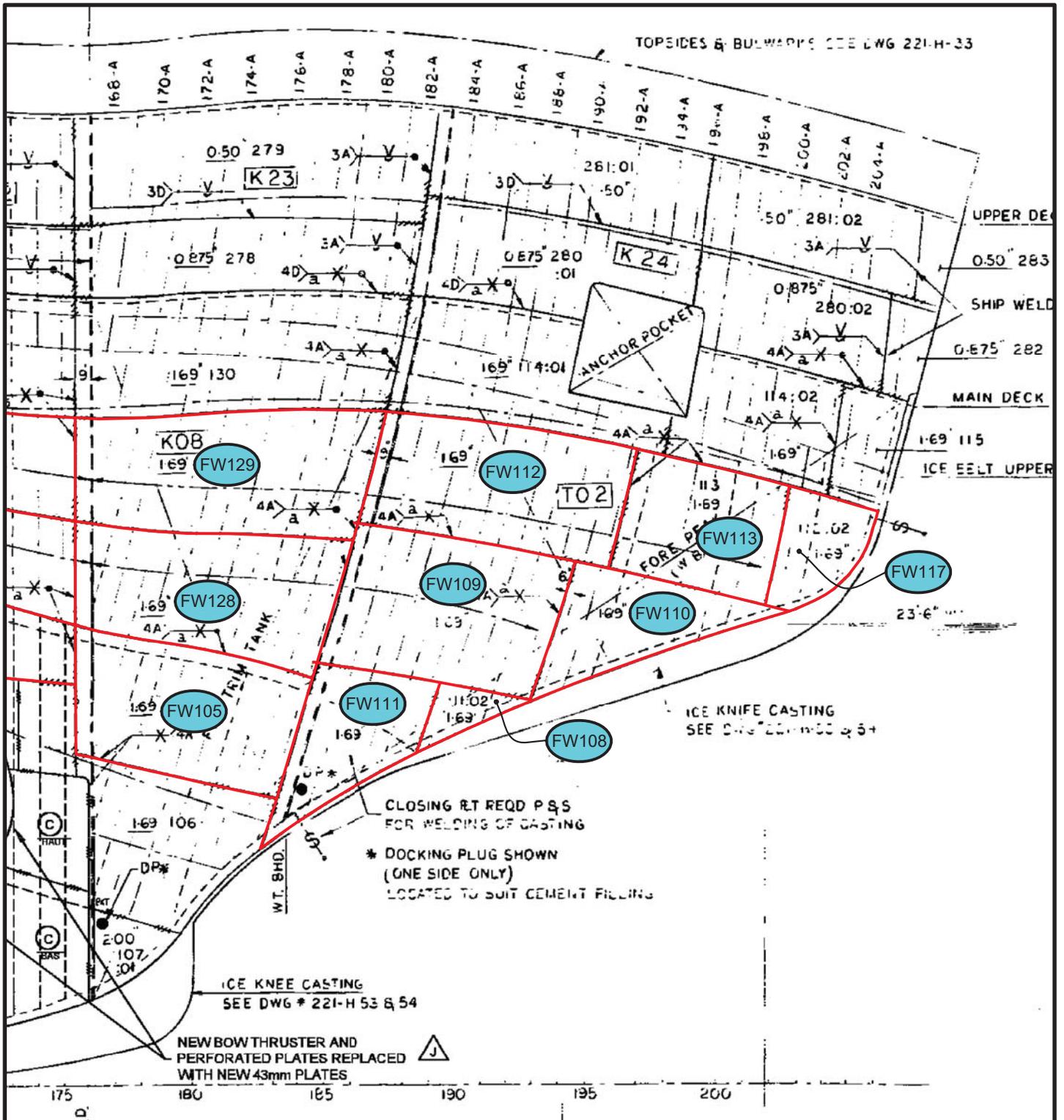


Projet / Project		N.G.C.C. Amundsen	
Titre / Title		Plaques de bordé (shell plates) - SK2	
Client / Customer		Travaux Publics et Services gouvernementaux Canada	
Préparé par / Prepared by	Date	Echelle / Scale	Feuille / Sheet #
Annie Truchon	2017/12/15	Non à l'échelle	5 de 7
Dessin / Drawing #		Rév. / Rev. #	
PGL-131-2017-A_utm report_shell_Amundsen_20171213.dwg		0	





Projet / Project N.G.C.C. Amundsen		 9629331 CANADA INC.		
Titre / Title Plaques de bordé (shell plates) - SK2				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Annie Truchon	Date 2017/12/15	Echelle / Scale Non à l'échelle	Feuille / Sheet # 6 de 7	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_shell_Amundsen_20171213.dwg			Rév. / Rev. # 0	



Projet / Project			
N.G.C.C. Amundsen			
Titre / Title			
Plaques de bordé (shell plates) - SK2			
Client / Customer		Travaux Publics et Services gouvernementaux Canada	
Préparé par / Prepared by	Date	Echelle / Scale	Feuille / Sheet #
Annie Truchon	2017/12/15	Non à l'échelle	7 de 7
Dessin / Drawing #		Format / Size	
PGL-131-2017-A_utm report_shell_Amundsen_20171213.dwg		Ansi A (V)	
			Rév. / Rev. #
			0



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

Remaining Exposed Deck/Superstructure Plating -  
Other Deck Plating

TM Forms





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

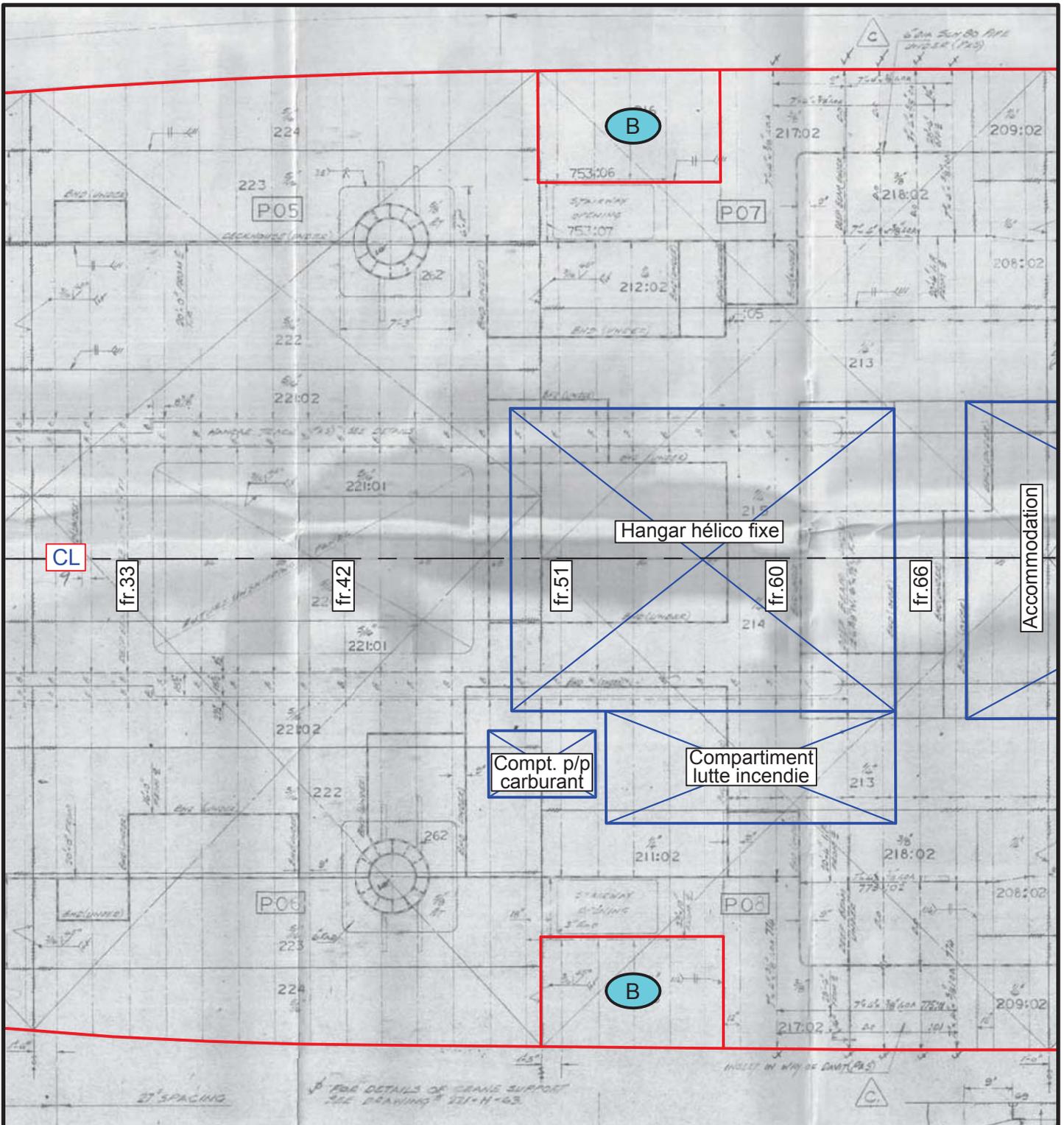
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### TM Sketches

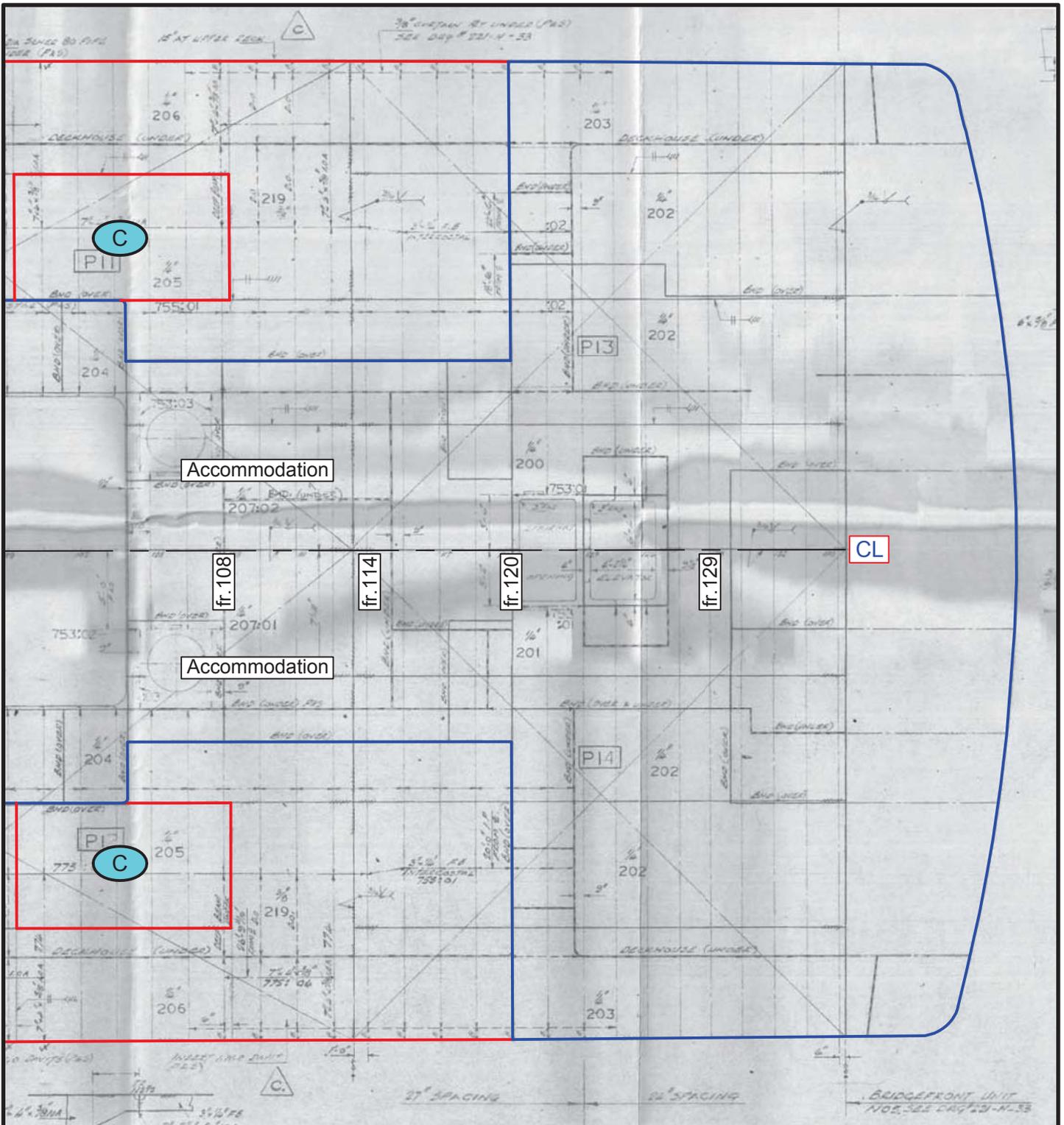


Projet / Project		N.G.C.C. Amundsen	
Titre / Title		Plaques pont des Embarcations (Flight & boat deck) - SK3	
Client / Customer		Travaux Publics et Services gouvernementaux Canada	
Préparé par / Prepared by	Date	Echelle / Scale	Feuille / Sheet #
Elvis Poulin	2017/12/13	Non à l'échelle	1 de 3
Dessin / Drawing #		Rév. / Rev. #	
PGL-131-2017-A_utm report_other decks_Amundsen_20171213.dwg		0	





Projet / Project N.G.C.C. Amundsen				
Titre / Title Plaques pont des Embarcations (Flight & boat deck) - SK3				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Elvis Poulin	Date 2017/12/13			
Dessin / Drawing # PGL-131-2017-A_utm report_other decks_Amundsen_20171213.dwg		Rév. / Rev. # 0		



Projet / Project		N.G.C.C. Amundsen	
Titre / Title		Plaques pont des Embarcations (Flight & boat deck) - SK3	
Client / Customer		Travaux Publics et Services gouvernementaux Canada	
Préparé par / Prepared by	Date	Echelle / Scale	Feuille / Sheet #
Elvis Poulin	2017/12/13	Non à l'échelle	3 de 3
Dessin / Drawing #		Rév. / Rev. #	
PGL-131-2017-A_utm report_other decks_Amundsen_20171213.dwg		0	





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

Remaining Exposed Deck/Superstructure Plating -  
Superstructure Deck Plating

TM Forms











# Thickness Measurement Report

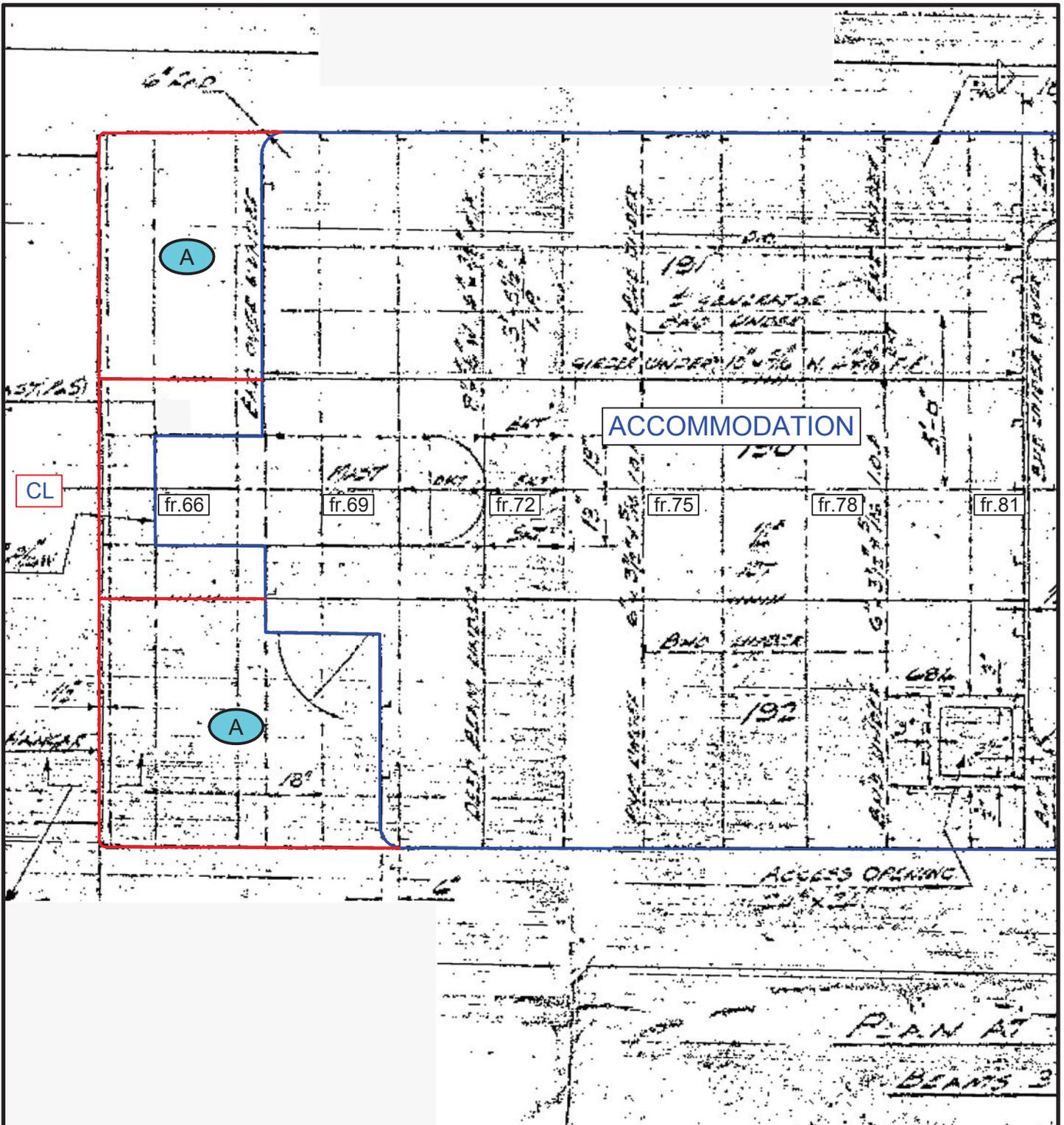
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LR/IMO Number : 7510846

TM Report No : MTL1700708

Remaining Exposed Deck/Superstructure Plating -  
Superstructure Deck Plating

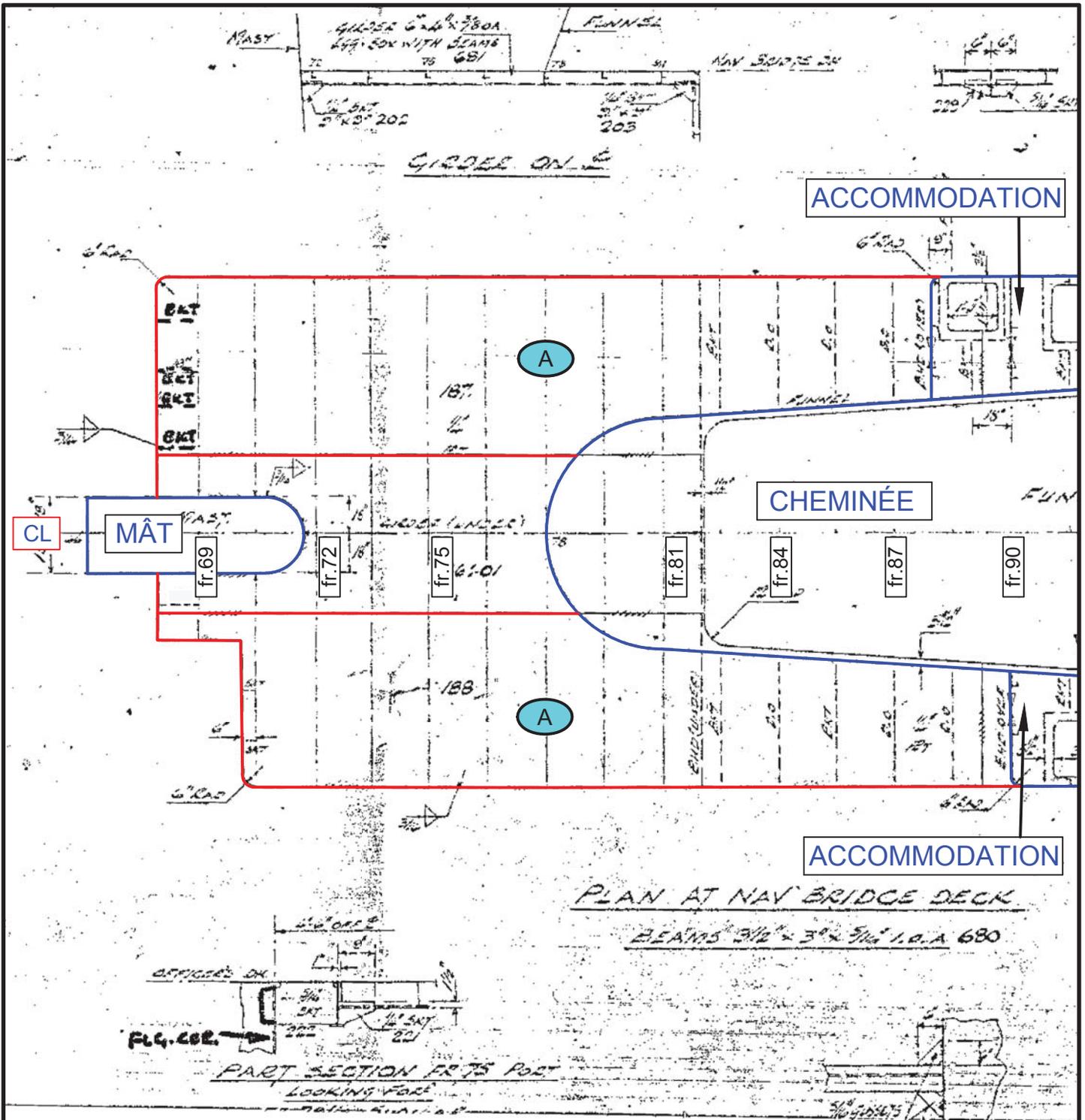
TM Sketches



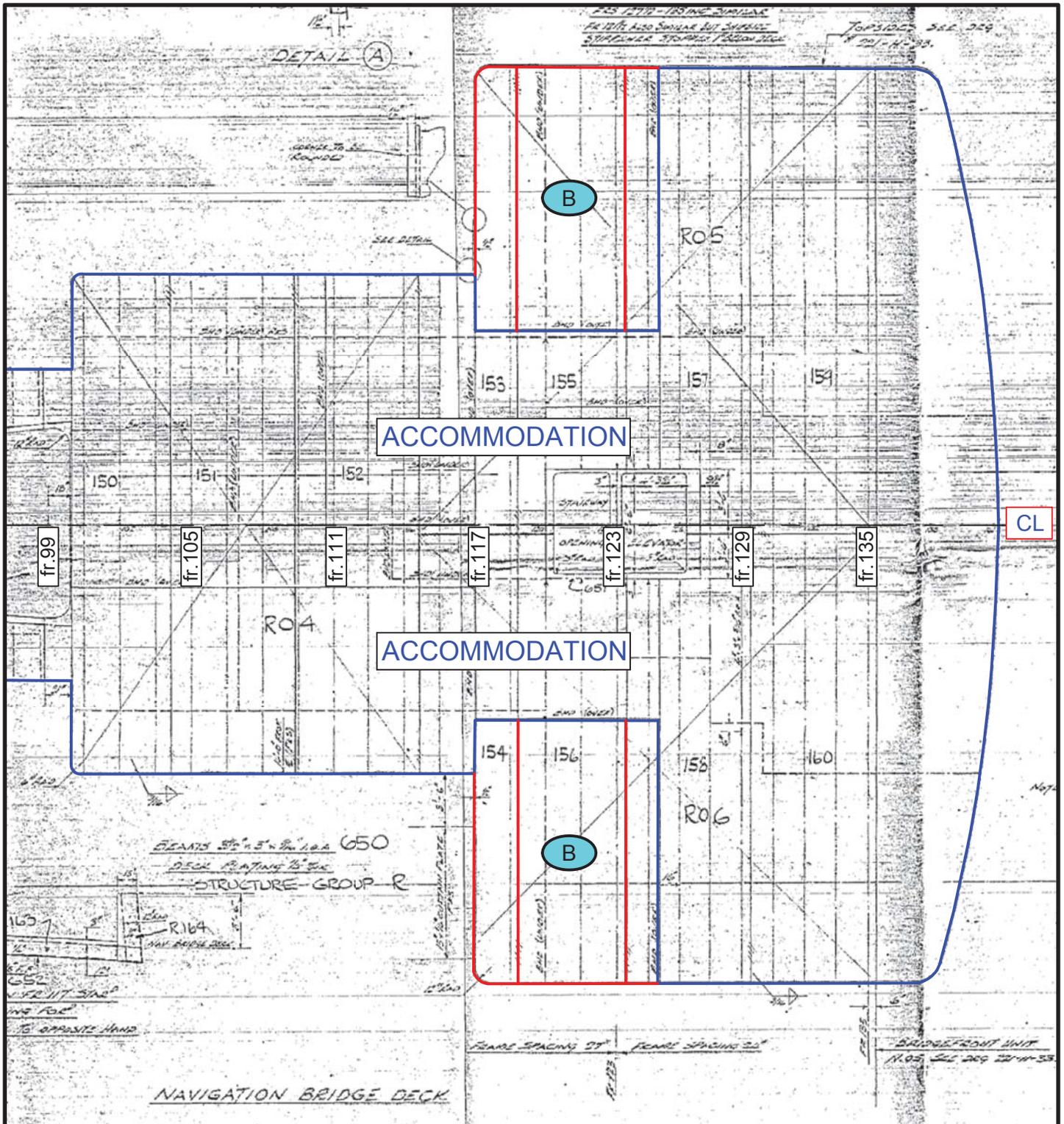
Projet / Project N.G.C.C. Amundsen			
Titre / Title Plaques du pont des Officiers (Officer's deck) - SK4			
Client / Customer Travaux Publics et Services gouvernementaux Canada			
Préparé par / Prepared by Elvis Poulin	Date 2017/12/14	Echelle / Scale Non à l'échelle	Feuille / Sheet # 1 de 2
Dessin / Drawing # PGL-131-2017-A_utm report_other decks_Amundsen_20171213.dwg			Format / Size Ansi A (V)
			Rév. / Rev. # 0



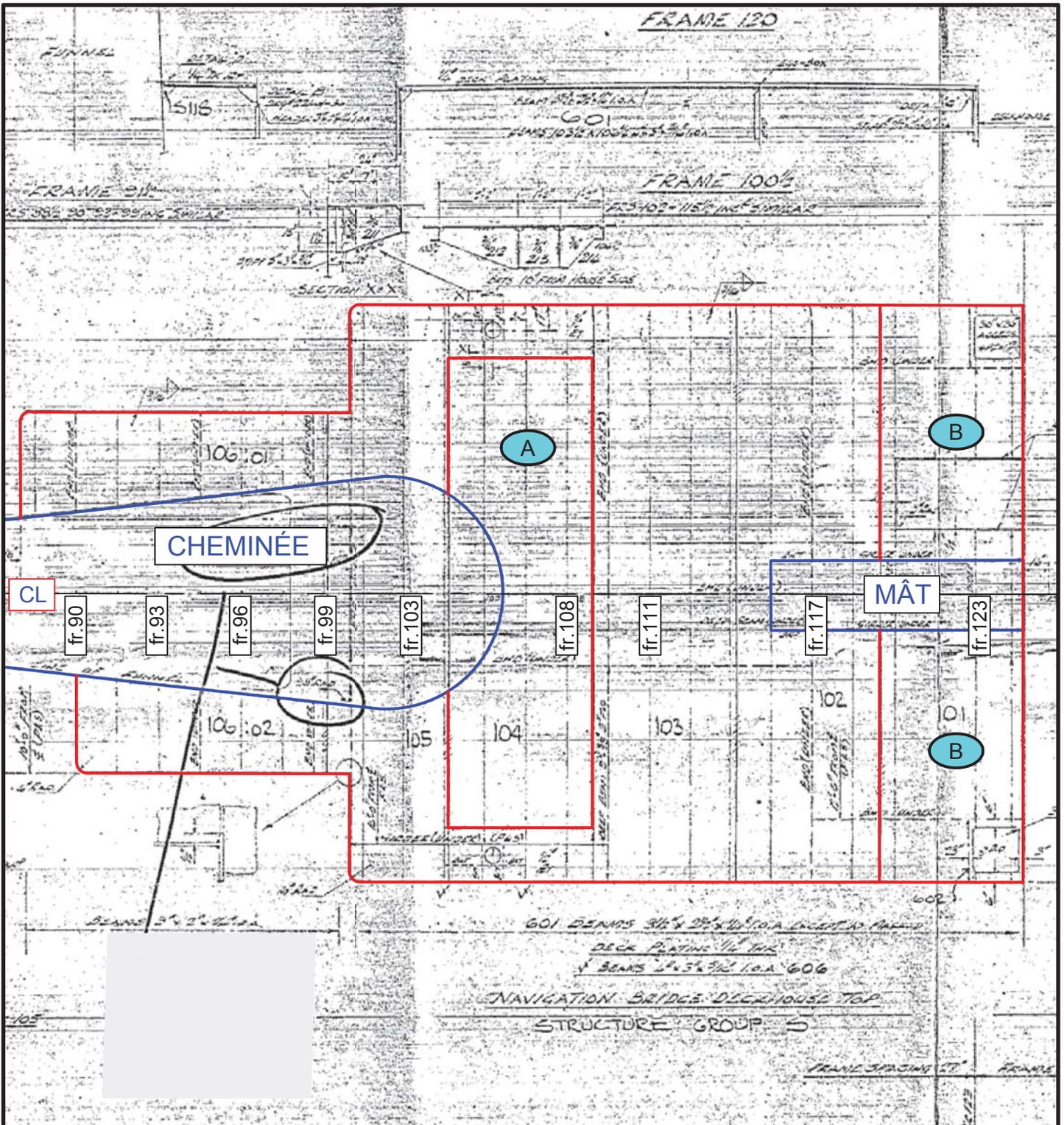




Projet / Project N.G.C.C. Amundsen		 <b>INSPECTION PGL</b> <small>9629331 CANADA INC.</small>		
Titre / Title Plaques du pont de Navigation (Navigating bridge deck) - SK5				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Elvis Poulin	Date 2017/12/14	Echelle / Scale Non à l'échelle	Feuille / Sheet # 1 de 2	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_other decks_Amundsen_20171213.dwg			Rév. / Rev. # 0	

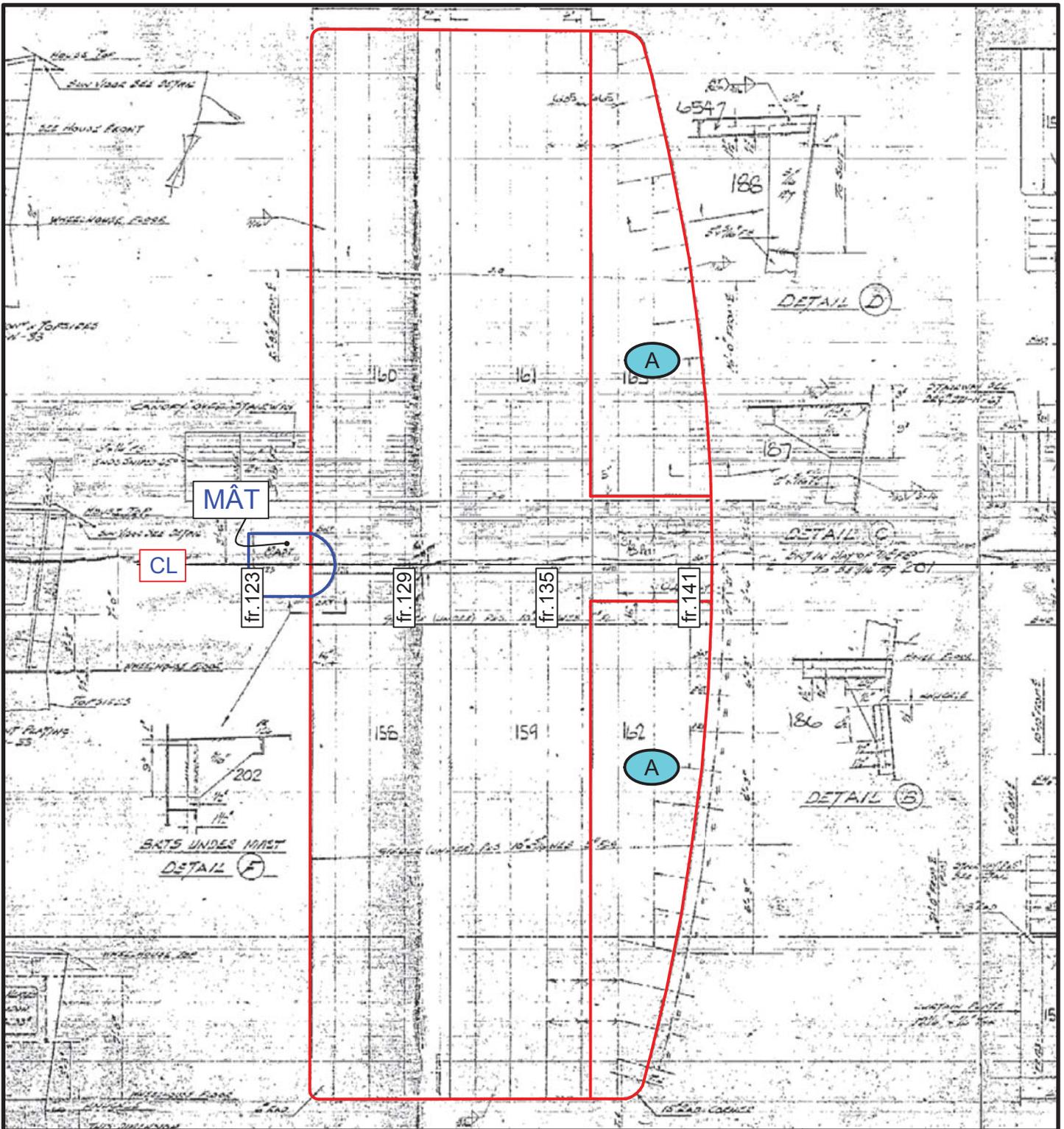


Projet / Project N.G.C.C. Amundsen				
Titre / Title Plaques du pont de Navigation (Navigating bridge deck) - SK5				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Elvis Poulin	Date 2017/12/14	Echelle / Scale Non à l'échelle	Feuille / Sheet # 2 de 2	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_other decks_Amundsen_20171213.dwg			Rév. / Rev. # 0	



Projet / Project		N.G.C.C. Amundsen	
Titre / Title		Plaques dessus Timonerie (Nav. bridge deckhouse top) - SK6	
Client / Customer		Travaux Publics et Services gouvernementaux Canada	
Préparé par / Prepared by	Date	Echelle / Scale	Feuille / Sheet #
Elvis Poulin	2017/12/14	Non à l'échelle	1 de 1
Dessin / Drawing #		Rév. / Rev. #	
PGL-131-2017-A_utm report_other decks_Amundsen_20171213.dwg		0	





Projet / Project			
N.G.C.C. Amundsen			
Titre / Title			
Plaques dessus Timonerie (Wheelhouse top) - SK7			
Client / Customer			
Travaux Publics et Services gouvernementaux Canada			
Préparé par / Prepared by	Date	Echelle / Scale	Feuille / Sheet #
Elvis Poulin	2017/12/14	Non à l'échelle	1 de 1
Dessin / Drawing #			Rév. / Rev. #
PGL-131-2017-A_utm report_other decks_Amundsen_20171213.dwg			0





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

WB Tanks – Void Spaces Internal Structure -  
Fuel oil tanks - E/R

TM Forms



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Fuel oil tanks - E/R											
Location of Structure :		I.W.O. Transverse section belt - Fr.75											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
DECK ZONE													
DB (web) - Reading no.1	SK13	7.9	25	5.9	7.4	0.5	6.33		7.4	0.5	6.33		
DB (FLG) - Reading no.1	SK13	7.9	25	5.9	7.4	0.5	6.33		7.5	0.4	5.06		
BKT OB - Reading no.2	SK13	12.7	25	9.5	12.7	0	0		12.8	0	0		
BKT OB (FLG) - Reading no.2	SK13	12.7	25	9.5	12.7	0	0		12.7	0	0		
BKT IB - Reading no.3	SK13	9.5	25	7.1	9.5	0	0		9.3	0.2	2.11		
SF (web) - Reading no.4	SK13	15.9	25	11.9	16.9	0	0		16.2	0	0		
SF (FLG) - Reading no.4	SK13	15.9	25	11.9	16	0	0		16	0	0		
LBS (web) - Reading no.5	SK13	9.5	25	7.1	9.1	0.4	4.21		9.1	0.4	4.21		
LBS (FLG) - Reading no.5	SK13	9.5	25	7.1	9.1	0.4	4.21		9.1	0.4	4.21		
BKT (STR F) - Reading no.6	SK13	12.7	25	9.5	12.9	0	0		12.9	0	0		
NEUTRAL AXIS ZONE													
BKT (STR D) - Reading no.7	SK13	12.7	25	9.5	12.8	0	0		12.8	0	0		
SF (web) - Reading no.8	SK13	15.9	25	11.9	16.2	0	0		16.1	0	0		
SF (FLG) - Reading no.8	SK13	15.9	25	11.9	15.8	0.1	0.63		15.9	0	0		
LBS (web) - Reading no.9	SK13	9.5	25	7.1	9.2	0.3	3.16		9.1	0.4	4.21		
LBS (FLG) - Reading no.9	SK13	9.5	25	7.1	9.1	0.4	4.21		9.1	0.4	4.21		
BKT OB - Reading no.10	SK13	11.1	25	8.3	12.6	0	0		11.3	0	0		
BKT OB (FLG) - Reading no.10	SK13	11.1	25	8.3	12.6	0	0		11.2	0	0		
BKT IB - Reading no.11	SK13	9.5	25	7.1	9.3	0.2	2.11		9.2	0.3	3.16		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Fuel oil tanks - E/R											
Location of Structure :		I.W.O. Transverse section belt - Fr.75											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
SF (web) - Reading no.12	SK13	15.9	25	11.9	16.1	0	0		16.2	0	0		
SF (FLG) - Reading no.12	SK13	15.9	25	11.9	15.9	0	0		15.9	0	0		
LBS (web) - Reading no.13	SK13	9.5	25	7.1	9.1	0.4	4.21		9.1	0.4	4.21		
LBS (FLG) - Reading no.13	SK13	9.5	25	7.1	9.1	0.4	4.21		9.2	0.3	3.16		
BKT (STR C) - Reading no.14	SK13	12.7	25	9.5	12.8	0	0		12.9	0	0		
BKT (STR B) - Reading no.15	SK13	12.7	25	9.5	12.9	0	0		12.7	0	0		
BOTTOM ZONE													
BKT (STR A) - Reading no.16	SK13	12.7	25	9.5	12.9	0	0		12	0.7	5.51		
SF (web) - Reading no.17	SK13	15.9	25	11.9	15.8	0.1	0.63		16	0	0		
SF (FLG) - Reading no.17	SK13	15.9	25	11.9	16.1	0	0		16.2	0	0		
LBS (web) - Reading no.18	SK13	9.5	25	7.1	9.1	0.4	4.21		9.1	0.4	4.21		
LBS (FLG) - Reading no.18	SK13	9.5	25	7.1	9.1	0.4	4.21		9.1	0.4	4.21		
BKT - Reading no.19	SK13	11.9	25	8.9	12.1	0	0		12.2	0	0		
BKT (FLG) - Reading no.19	SK13	11.9	25	8.9	12	0	0		11.9	0	0		
Floor - upper RDG no.20	SK13	10.3	25	7.7	10.5	0	0		10.6	0	0		
Floor - lower RDG no.21	SK13	10.3	25	7.7	10.5	0	0		10.6	0	0		
Floor (STF) - Reading no.22	SK13	12.7	30	8.9	12.4	0.3	2.36		12.4	0.3	2.36		
Floor - upper RDG no.23	SK13	10.3	25	7.7	10.5	0	0		10.6	0	0		
Floor - lower RDG no.24	SK13	10.3	25	7.7	10.6	0	0		10.7	0	0		
Floor - upper RDG no.25	SK13	10.3	25	7.7	10.5	0	0		10.6	0	0		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Fuel oil tanks - E/R											
Location of Structure :		I.W.O. Transverse section belt - Fr.105											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
DECK ZONE													
DB (web) - Reading no.1	SK14	7.9	25	5.9	7.2	0.7	8.86		7.4	0.5	6.33		
DB (FLG) - Reading no.1	SK14	7.9	25	5.9	7.4	0.5	6.33		7.5	0.4	5.06		
BKT OB - Reading no.2	SK14	12.7	25	9.5	12.6	0.1	0.79		12.8	0	0		
BKT OB (FLG) - Reading no.2	SK14	12.7	25	9.5	12.6	0.1	0.79		12.8	0	0		
BKT IB - Reading no.3	SK14	9.5	25	7.1	9.4	0.1	1.05		9.2	0.3	3.16		
SF (web) - Reading no.4	SK14	15.9	25	11.9	15.4	0.5	3.14		15.5	0.4	2.52		
SF (FLG) - Reading no.4	SK14	15.9	25	11.9	15.1	0.8	5.03		15.5	0.4	2.52		
LBS (web) - Reading no.5	SK14	9.5	25	7.1	9.2	0.3	3.16		9.3	0.2	2.11		
LBS (FLG) - Reading no.5	SK14	9.5	25	7.1	9.2	0.3	3.16		9.3	0.2	2.11		
NEUTRAL AXIS ZONE													
SF (web) - Reading no.6	SK14	15.9	25	11.9	15.4	0.5	3.14		15.6	0.3	1.89		
SF (FLG) - Reading no.6	SK14	15.9	25	11.9	15.3	0.6	3.77		15.4	0.5	3.14		
LBS (web) - Reading no.7	SK14	9.5	25	7.1	9.2	0.3	3.16		9.3	0.2	2.11		
LBS (FLG) - Reading no.7	SK14	9.5	25	7.1	9.2	0.3	3.16		9.3	0.2	2.11		
DB (web) - Reading no.8	SK14	7.9	25	5.9	8	0	0		8.1	0	0		
DB (FLG) - Reading no.8	SK14	7.9	25	5.9	7.9	0	0		7.8	0.1	1.27		
BKT OB - Reading no.9	SK14	11.1	25	8.3	10.8	0.3	2.7		11.2	0	0		
BKT OB (FLG) - Reading no.9	SK14	11.1	25	8.3	10.8	0.3	2.7		11.3	0	0		
BKT IB - Reading no.10	SK14	9.5	25	7.1	9.2	0.3	3.16		9.2	0.3	3.16		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Fuel oil tanks - E/R											
Location of Structure :		I.W.O. Transverse section belt - Fr.105											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BKT IB (FLG) - Reading no.10	SK14	9.5	25	7.1	9.2	0.3	3.16		9.2	0.3	3.16		
SF (web) - Reading no.11	SK14	15.9	25	11.9	15.4	0.5	3.14		15.6	0.3	1.89		
SF (FLG) - Reading no.11	SK14	15.9	25	11.9	15.2	0.7	4.4		15.6	0.3	1.89		
LBS (web) - Reading no.12	SK14	9.5	25	7.1	9.2	0.3	3.16		9.4	0.1	1.05		
LBS (FLG) - Reading no.12	SK14	9.5	25	7.1	9.3	0.2	2.11		9.2	0.3	3.16		
BOTTOM ZONE													
SF (web) - Reading no.13	SK14	15.9	25	11.9	15.1	0.8	5.03		15.4	0.5	3.14		
SF (FLG) - Reading no.13	SK14	15.9	25	11.9	15.4	0.5	3.14		15.6	0.3	1.89		
LBS (web) - Reading no.14	SK14	9.5	25	7.1	9.2	0.3	3.16		9.3	0.2	2.11		
LBS (FLG) - Reading no.14	SK14	9.5	25	7.1	9.3	0.2	2.11		9.3	0.2	2.11		
BKT - Reading no.15	SK14	11.9	25	8.9	12	0	0		12.5	0	0		
BKT (FLG) - Reading no.15	SK14	11.9	25	8.9	12.1	0	0		12.6	0	0		
Floor - upper RDG no.16	SK14	10.3	25	7.7	10	0.3	2.91		10	0.3	2.91		
Floor - lower RDG no.17	SK14	10.3	25	7.7	11	0	0		10.1	0.2	1.94	insert PS	
BKT - Reading no.18	SK14	9.5	25	7.1	9.4	0.1	1.05		9.4	0.1	1.05		
BKT (FLG) - Reading no.18	SK14	9.5	25	7.1	9.4	0.1	1.05		9.4	0.1	1.05		
Inner bottom beam - RDG no.19	SK14	9.5	25	7.1	9.2	0.3	3.16		9.1	0.4	4.21		
Inner bottom beam FLG- RDG 19	SK14	9.5	25	7.1	9.2	0.3	3.16		9.1	0.4	4.21		
Bottom frame - RDG no.20	SK14	9.5	25	7.1	11	0	0		10.9	0	0		
Bottom frame FLG - RDG no.20	SK14	9.5	25	7.1	11	0	0		11	0	0		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Fuel oil tanks - E/R											
Location of Structure :		I.W.O. Transverse section belt - Fr.105											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BG (STF) - Reading no.21	SK14	12.7	30	8.9	12.6	0.1	0.79		12.7	0	0		
Inner bottom beam - RDG no.22	SK14	9.5	25	7.1	9.3	0.2	2.11		9	0.5	5.26		
Inner bottom beam FLG- RDG 22	SK14	9.5	25	7.1	9.3	0.2	2.11		9	0.5	5.26		
Bottom frame - RDG no.23	SK14	9.5	25	7.1	11.1	0	0		10.9	0	0		
Bottom frame FLG - RDG no.23	SK14	9.5	25	7.1	11	0	0		11	0	0		
BG (STF) - Reading no.24	SK14	12.7	30	8.9	12.7	0	0		12.7	0	0		
BG (STF) - Reading no.25	SK14	12.7	30	8.9	12.6	0.1	0.79		12.4	0.3	2.36		
Inner bottom beam - RDG no.26	SK14	9.5	25	7.1	9.2	0.3	3.16		9.1	0.4	4.21		
Inner bottom beam FLG- RDG 26	SK14	9.5	25	7.1	9.1	0.4	4.21		9	0.5	5.26		
Bottom frame - RDG no.27	SK14	9.5	25	7.1	11	0	0		11	0	0		
Bottom frame FLG - RDG no.27	SK14	9.5	25	7.1	11.2	0	0		10.9	0	0		
BKT - Reading no.28	SK14	9.5	25	7.1	9.3	0.2	2.11		9.4	0.1	1.05		
BKT (FLG) - Reading no.28	SK14	9.5	25	7.1	9.3	0.2	2.11		9.3	0.2	2.11		
Floor - upper RDG no.29	SK14	10.3	25	7.7	10	0.3	2.91		10.1	0.2	1.94		
Floor (STF) - Reading no.30	SK14	12.7	30	8.9	12.3	0.4	3.15		12.4	0.3	2.36		
Floor - upper RDG no.31	SK14	10.3	25	7.7	10.1	0.2	1.94		10	0.3	2.91		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

**WB Tanks – Void Spaces Internal Structure -  
Flume tanks/ DB nos.1**

**TM Forms**



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Flume tanks/ DB nos.1											
Location of Structure :		I.W.O. Transverse section belt - Fr.135											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
DECK ZONE													
DB (web) - Reading no.1	SK15-A	7.9	25	5.9	7.8	0.1	1.27		7.8	0.1	1.27		
DB (FLG) - Reading no.1	SK15-A	7.9	25	5.9	7.8	0.1	1.27		7.9	0	0		
DB (web) - Reading no.2	SK15-A	7.9	25	5.9	7.8	0.1	1.27		7.6	0.3	3.8		
DB (FLG) - Reading no.2	SK15-A	7.9	25	5.9	7.9	0	0		7.8	0.1	1.27		
DB (web) - Reading no.3	SK15-A	7.9	25	5.9	7.9	0	0		7.7	0.2	2.53		
DB (FLG) - Reading no.3	SK15-A	7.9	25	5.9	7.9	0	0		7.8	0.1	1.27		
BKT - Reading no.4	SK15-A	9.5	25	7.1	9.6	0	0		9.2	0.3	3.16		
DB (web) - Reading no.5	SK15-A	7.9	25	5.9	7.5	0.4	5.06		8	0	0		
DB (FLG) - Reading no.5	SK15-A	7.9	25	5.9	7.6	0.3	3.8		7.8	0.1	1.27		
Upper BKT - Reading no.6	SK15-A	14.3	25	10.7	15.2	0	0		14.7	0	0		
Upper BKT (FLG) - Reading no.6	SK15-A	14.3	25	10.7	14.6	0	0		14.6	0	0		
Web - Reading no.7	SK15-A	15.9	25	11.9	15.6	0.3	1.89		15.8	0.1	0.63		
Web - Reading no.8	SK15-A	15.9	25	11.9	15.4	0.5	3.14		15.6	0.3	1.89		
Web (FF) - Reading no.9	SK15-A	19.1	25	14.3	19.1	0	0		18.9	0.2	1.05		
Web (STF) - Reading no.10	SK15-A	12.7	30	8.9	12.6	0.1	0.79		12	0.7	5.51		
Web - Reading no.11	SK15-A	15.9	25	11.9	15.1	0.8	5.03		15	0.9	5.66		
Web - Reading no.12	SK15-A	15.9	25	11.9	15.2	0.7	4.4		15.3	0.6	3.77		
BKT (horizontal) - RDG no.13	SK15-A	12.7	30	8.9	12.4	0.3	2.36		12.1	0.6	4.72		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Flume tanks/ DB nos.1											
Location of Structure :		I.W.O. Transverse section belt - Fr.135											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
NEUTRAL AXIS ZONE													
Web (STF) - Reading no.14	SK15-A	12.7	30	8.9	12.8	0	0		12.4	0.3	2.36		
Web - Reading no.15	SK15-A	15.9	25	11.9	16	0	0		15.2	0.7	4.4		
Web - Reading no.16	SK15-A	15.9	25	11.9	15.3	0.6	3.77		15.2	0.7	4.4		
Web (FF) - Reading no.17	SK15-A	19.1	25	14.3	18.5	0.6	3.14		19.1	0	0		
BKT (horizontal) - RDG no.18	SK15-A	12.7	30	8.9	12.7	0	0		12.5	0.2	1.57		
BKT (horizontal) - RDG no.19	SK15-A	15.9	30	11.1	15.9	0	0		15.9	0	0		
Web - Reading no.20	SK15-A	15.9	25	11.9	15.6	0.3	1.89		15.7	0.2	1.26		
Web - Reading no.21	SK15-A	15.9	25	11.9	15.6	0.3	1.89		16.3	0	0		
Web (FF) - Reading no.22	SK15-A	19.1	25	14.3	19.1	0	0		19	0.1	0.52		
DB (web) - Reading no.23	SK15-D	9.5	25	7.1	9.3	0.2	2.11		9.3	0.2	2.11		
DB (FLG) - Reading no.23	SK15-D	9.5	25	7.1	9.2	0.3	3.16		9.2	0.3	3.16		
DB (web) - Reading no.24	SK15-D	9.5	25	7.1	9.3	0.2	2.11		9.3	0.2	2.11		
DB (FLG) - Reading no.24	SK15-D	9.5	25	7.1	9.3	0.2	2.11		9.3	0.2	2.11		
Deep beam - upper RDG 25	SK15-D	9.5	25	7.1	9.4	0.1	1.05		9.4	0.1	1.05		
Deep beam - lower RDG 25	SK15-D	9.5	25	7.1	9.4	0.1	1.05		9.4	0.1	1.05		
Deep beam (FF) - RDG 25	SK15-D	12.7	25	9.5	12.5	0.2	1.57		12.5	0.2	1.57		
Deep beam - upper RDG 26	SK15-D	9.5	25	7.1	9.8	0	0		9.8	0	0		
Deep beam - lower RDG 26	SK15-D	9.5	25	7.1	9.9	0	0		9.8	0	0		
Deep beam (FF) - RDG 26	SK15-D	12.7	25	9.5	12.5	0.2	1.57		12.7	0	0		
Deep beam(STF) - Reading no.27	SK15-D	7.9	30	5.5	9.5	0	0		9.6	0	0		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :					Flume tanks/ DB nos.1								
Location of Structure :					I.W.O. Transverse section belt - Fr.135								
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
Web - Reading no.28	SK15-D	15.9	25	11.9	15.8	0.1	0.63		15.6	0.3	1.89		
Web - Reading no.29	SK15-D	15.9	25	11.9	16.1	0	0		15.6	0.3	1.89		
Web (FF) - Reading no.30	SK15-D	22.2	25	16.7	21.9	0.3	1.35		22	0.2	0.9		
Web (STF) - Reading no.31	SK15-D	12.7	30	8.9	14.3	0	0		12.6	0.1	0.79		
Upper BKT - Reading no.32	SK15-D	9.5	30	6.7	10.1	0	0		9.9	0	0		
Upper BKT(FLG) - Reading no.32	SK15-D	9.5	30	6.7	9.9	0	0		10.1	0	0		
BKT (horizontal) - RDG no.33	SK15-D	12.7	30	8.9	12.3	0.4	3.15		12.3	0.4	3.15		
Web (STF) - Reading no.34	SK15-D	12.7	30	8.9	14.1	0	0		12.7	0	0		
Web - Reading no.35	SK15-D	15.9	25	11.9	15.6	0.3	1.89		15.2	0.7	4.4		
Web - Reading no.36	SK15-D	15.9	25	11.9	16.1	0	0		15.1	0.8	5.03		
Web (FF) - Reading no.37	SK15-D	22.2	25	16.7	22	0.2	0.9		22.2	0	0		
BKT (horizontal) - RDG no.38	SK15-D	12.7	30	8.9	12.2	0.5	3.94		12.2	0.5	3.94		
Web (STF) - Reading no.39	SK15-D	12.7	30	8.9	14	0	0		12.8	0	0		
BOTTOM ZONE													
Web - Reading no.40	SK15-D	15.9	25	11.9	15.7	0.2	1.26		15.8	0.1	0.63		
Web - Reading no.41	SK15-D	15.9	25	11.9	15.9	0	0		15.8	0.1	0.63		
Web (FF) - Reading no.42	SK15-D	22.2	25	16.7	21.8	0.4	1.8		21.8	0.4	1.8		
BKT (horizontal) - RDG no.43	SK15-D	12.7	30	8.9	13.3	0	0		12.7	0	0		
BKT (horizontal) - RDG no.44	SK15-D	15.9	30	11.1	15.9	0	0		16.1	0	0		
Web - Reading no.45	SK15-D	15.9	25	11.9	16.1	0	0		16.2	0	0		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Flume tanks/ DB nos.1											
Location of Structure :		I.W.O. Transverse section belt - Fr.135											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
Web - Reading no.46	SK15-D	15.9	25	11.9	15.9	0	0		15.8	0.1	0.63		
Web (FF) - Reading no.47	SK15-D	22.2	25	16.7	22	0.2	0.9		22.3	0	0		
BT - Reading no.48	SK15-F	9.5	25	7.1	9.1	0.4	4.21		9.1	0.4	4.21		
BT (FLG) - Reading no.48	SK15-F	12.7	25	9.5	12.5	0.2	1.57		12.4	0.3	2.36		
BKT - upper RDG 49	SK15-F	9.5	25	7.1	9.7	0	0		9.7	0	0		
BKT - lower RDG 49	SK15-F	9.5	25	7.1	9.9	0	0		9.6	0	0		
BKT (FF) - Reading no.49	SK15-F	12.7	25	9.5	12.7	0	0		12.6	0.1	0.79		
BKT (STF) - Reading no.50	SK15-F	12.7	30	8.9	12.7	0	0					Centerline STF	
Floor - upper RDG no.51	SK15-F	10.3	25	7.7	10.1	0.2	1.94		10.2	0.1	0.97		
Floor - lower RDG no.52	SK15-F	10.3	25	7.7	10.1	0.2	1.94		10.2	0.1	0.97		
Floor (STF) - Reading no.53	SK15-F	6.4	30	4.5	5.9	0.5	7.81		5.9	0.5	7.81		
Floor(STF FLG) - Reading no.53	SK15-F	6.4	30	4.5	5.9	0.5	7.81		6	0.4	6.25		
Floor - upper RDG no.54	SK15-F	10.3	25	7.7	10.1	0.2	1.94		10.2	0.1	0.97		
Floor - lower RDG no.55	SK15-F	10.3	25	7.7	10.2	0.1	0.97		10.2	0.1	0.97		
Floor - upper RDG no.56	SK15-F	10.3	25	7.7	10.1	0.2	1.94		10.2	0.1	0.97		
Floor - lower RDG no.57	SK15-F	10.3	25	7.7	10.2	0.1	0.97		10.2	0.1	0.97		
Floor (STF) - Reading no.58	SK15-F	6.4	30	4.5	5.9	0.5	7.81		5.9	0.5	7.81		
Floor(STF FLG) - Reading no.58	SK15-F	6.4	30	4.5	5.8	0.6	9.37		5.9	0.5	7.81		
Floor - upper RDG no.59	SK15-F	10.3	25	7.7	10.1	0.2	1.94		10.1	0.2	1.94		
Floor - lower RDG no.60	SK15-F	10.3	25	7.7	10.2	0.1	0.97		11	0	0	Insert Starboard	
Floor (STF) - Reading no.61	SK15-F	12.7	30	8.9	12.5	0.2	1.57		12.4	0.3	2.36		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

Peak Tanks – Transverse Webs and Bulkheads -  
Fore Peak

TM Forms



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :					Fore Peak								
Location of Structure :					Frame No. 183A								
Type of Bulkhead :					Transverse Bulkhead								
Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(mm)
BHD plating - Reading no.1	SK17	9.5	30	6.7	9.6	0	0		9.5	0	0		
BHD plating - Reading no.2	SK17	9.5	30	6.7	9.6	0	0		9.3	0.2	2.11		
BHD plating - Reading no.3	SK17	9.5	30	6.7	9.3	0.2	2.11		9.2	0.3	3.16		
BHD plating - Reading no.4	SK17	9.5	30	6.7	9.7	0	0		9.5	0	0		
BHD plating - Reading no.5	SK17	9.5	30	6.7	9.7	0	0		9.3	0.2	2.11		
BHD plating - Reading no.6	SK17	15.9	30	11.1	15.7	0.2	1.26		15.8	0.1	0.63		
BHD plating - Reading no.7	SK17	15.9	30	11.1	13.6	2.3	14.47		15.8	0.1	0.63		
BHD plating - Reading no.8	SK17	15.9	30	11.1					14.5	1.4	8.81	Starboard side only	
BHD plating - Reading no.9	SK17	15.9	30	11.1	14	1.9	11.95					Port side only	
BHD plating - Reading no.10	SK17	15.9	30	11.1	14.6	1.3	8.18		16	0	0		
BHD plating - Reading no.11	SK17	12.7	30	8.9	12	0.7	5.51		11.9	0.8	6.3		
BHD plating - Reading no.12	SK17	12.7	30	8.9	12.4	0.3	2.36		11.8	0.9	7.09		
BHD plating - Reading no.13	SK17	15.9	30	11.1	15.8	0.1	0.63		15.2	0.7	4.4		
BHD plating - Reading no.14	SK17	15.9	30	11.1	15.9	0	0		15.3	0.6	3.77		
BHD plating - Reading no.15	SK17	15.9	30	11.1	16	0	0		15.4	0.5	3.14		
BHD plating - Reading no.16	SK17	15.9	30	11.1	14.5	1.4	8.81		14.3	1.6	10.06		
BHD plating - Reading no.17	SK17	15.9	30	11.1	15.1	0.8	5.03		15.8	0.1	0.63		
BHD plating - Reading no.18	SK17	15.9	30	11.1	15.5	0.4	2.52		14.9	1	6.29		
BHD plating - Reading no.19	SK17	15.9	30	11.1	15.8	0.1	0.63		15.8	0.1	0.63		
BHD plating - Reading no.20	SK17	15.9	30	11.1	15.3	0.6	3.77		15.7	0.2	1.26		
BHD plating - Reading no.21	SK17	15.9	30	11.1	15.8	0.1	0.63					Port side only	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Fore Peak										
Location of Structure :			Transverse Web - Frame No. 187A										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
LBP - upper RDG no.1	SK18-A	9.5	30	6.7	9.6	0	0		9.8	0	0		
LBP - lower RDG no.2	SK18-A	9.5	30	6.7	11.5	0	0		11.9	0	0		
Web - Reading no.3	SK18-A	9.5	25	7.1	9.4	0.1	1.05		9.5	0	0		
Web - Reading no.4	SK18-A	9.5	25	7.1	9.1	0.4	4.21		9.6	0	0		
Web (FF) - Reading no.5	SK18-A	12.7	25	9.5	12.5	0.2	1.57		12.7	0	0		
Web - Reading no.6	SK18-A	9.5	25	7.1	9.5	0	0		9.7	0	0		
Web (FF) - Reading no.7	SK18-A	12.7	25	9.5	12.6	0.1	0.79		11.5	1.2	9.45		
DGW - upper RDG no.8	SK18-A	9.5	25	7.1	9.4	0.1	1.05		9.6	0	0		
DGW - lower RDG no.8	SK18-A	9.5	25	7.1	9.5	0	0		9.7	0	0		
DGW (FLG) - RDG no.8	SK18-A	9.5	25	7.1	9.3	0.2	2.11		9.7	0	0		
Web - Reading no.9	SK18-A	15.9	25	11.9	15.7	0.2	1.26		15.8	0.1	0.63		
Web (STF) - Reading no.10	SK18-A	12.7	30	8.9	12.6	0.1	0.79		12.8	0	0		
Web - Reading no.11	SK18-A	15.9	25	11.9	14.1	1.8	11.32		14.2	1.7	10.69		
Web (STF) - Reading no.12	SK18-A	12.7	30	8.9	12.5	0.2	1.57		12.8	0	0		
Web - Reading no.13	SK18-A	15.9	25	11.9	15.7	0.2	1.26		15.8	0.1	0.63		
Web - Reading no.14	SK18-A	15.9	25	11.9	15.8	0.1	0.63		16	0	0		
Web (FF) - Reading no.15	SK18-A	19.1	25	14.3	17.5	1.6	8.38		18.6	0.5	2.62		
STR K (web OB) - RDG no.16	SK18-A	12.7	25	9.5	11.7	1	7.87		12.1	0.6	4.72		
STR K (web IB) - RDG no.16	SK18-A	12.7	25	9.5	12.6	0.1	0.79		12.7	0	0		
STR K (FF) - RDG no.16	SK18-A	19.1	25	14.3	18	1.1	5.76		19.2	0	0		
Web (STF) - Reading no.17	SK18-A	12.7	30	8.9	12.1	0.6	4.72		12.1	0.6	4.72		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Fore Peak										
Location of Structure :			Transverse Web - Frame No. 187A										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
Web - Reading no.18	SK18-A	15.9	25	11.9	13.9	2	12.58		15.8	0.1	0.63		
Web - Reading no.19	SK18-A	15.9	25	11.9	14.8	1.1	6.92		15.8	0.1	0.63		
STR F (web OB) - RDG no.20	SK18-A	12.7	25	9.5	12.8	0	0		11.2	1.5	11.81		
STR F (web IB) - RDG no.20	SK18-A	12.7	25	9.5	13	0	0		12.9	0	0		
STR F (FF) - RDG no.20	SK18-A	19.1	25	14.3	18.5	0.6	3.14		19.1	0	0		
Web (STF) - Reading no.21	SK18-A	12.7	30	8.9	11.4	1.3	10.24		12.3	0.4	3.15		
Web - Reading no.22	SK18-A	15.9	25	11.9	14.3	1.6	10.06		16	0	0		
Flat 23'-0" - RDG no.23	SK18-A	12.7	30	8.9	12.6	0.1	0.79		13.3	0	0		
Flat 23'-0" - RDG no.24	SK18-A	12.7	30	8.9	13.2	0	0		13.3	0	0		
Flat 23'-0" - OB RDG no.25	SK18-A	12.7	25	9.5	10.7	2	15.75		12.7	0	0		
Flat 23'-0" - IB RDG no.25	SK18-A	12.7	25	9.5	13.1	0	0		12.8	0	0		
Web - Reading no.26	SK18-A	15.9	25	11.9	15.5	0.4	2.52		15.7	0.2	1.26		
Web (STF) - Reading no.27	SK18-A	7.9	30	5.5	7.7	0.2	2.53		7.7	0.2	2.53		
Web (STF FLG) - Reading no.27	SK18-A	7.9	30	5.5	7.7	0.2	2.53		7.7	0.2	2.53		
Web - Reading no.28	SK18-A	15.9	25	11.9	15.8	0.1	0.63		15.2	0.7	4.4		
Web - Reading no.29	SK18-A	15.9	25	11.9	15.2	0.7	4.4		15.7	0.2	1.26		
Web (STF) - Reading no.30	SK18-A	7.9	30	5.5	7.8	0.1	1.27		7.4	0.5	6.33		
Web (STF FLG) - Reading no.30	SK18-A	7.9	30	5.5	7.8	0.1	1.27		8	0	0		
STR D (web OB) - RDG no.31	SK18-A	12.7	25	9.5	11.3	1.4	11.02		11.1	1.6	12.6		
STR D (web IB) - RDG no.31	SK18-A	12.7	25	9.5	12.9	0	0		12.9	0	0		
STR D (FF) - RDG no.31	SK18-A	19.1	25	14.3	19.1	0	0		18.9	0.2	1.05		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Fore Peak										
Location of Structure :			Transverse Web - Frame No. 187A										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
Web - Reading no.32	SK18-A	15.9	25	11.9	15	0.9	5.66		15.6	0.3	1.89		
Web (STF) - Reading no.33	SK18-A	7.9	30	5.5	7.9	0	0		7.8	0.1	1.27		
Web (STF FLG) - Reading no.33	SK18-A	7.9	30	5.5	8	0	0		7.9	0	0		
Web (STF) - Reading no.34	SK18-A	7.9	30	5.5	7.8	0.1	1.27		8	0	0		
Web (STF FLG) - Reading no.34	SK18-A	7.9	30	5.5	7.5	0.4	5.06		7.9	0	0		
Web - Reading no.35	SK18-A	15.9	25	11.9	15	0.9	5.66		15.1	0.8	5.03		
STR (intcl) - Reading no.36	SK18-A	15.9	25	11.9	15.1	0.8	5.03		15.5	0.4	2.52		
LBP - Reading no.37	SK18-A	15.9	25	11.9	16	0	0					Centerline BHD	
LBP - Reading no.38	SK18-A	15.9	25	11.9	16	0	0					Centerline BHD	
LBP - Reading no.39	SK18-A	15.9	25	11.9	16	0	0					Centerline BHD	
LBP - Reading no.40	SK18-A	15.9	25	11.9	15.1	0.8	5.03					Centerline BHD	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Fore Peak										
Location of Structure :			Transverse Web - Frame No. 191A										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
LBP - Reading no.1	SK18-B	9.5	25	7.1	9.6	0	0					Centerline BHD	
LBP - Reading no.2	SK18-B	9.5	25	7.1	9.5	0	0					Centerline BHD	
LBP - Reading no.3	SK18-B	15.9	25	11.9	15.9	0	0					Centerline BHD	
LBP - Reading no.4	SK18-B	15.9	25	11.9	15.4	0.5	3.14					Centerline BHD	
BHD plating - RDG no.5	SK18-B	9.5	30	6.7	9	0.5	5.26	9.4	0.1	1.05		BHD chain locker	
BKT (upper) - RDG no.6	SK18-B	9.5	25	7.1	9.4	0.1	1.05	9.7	0	0		BHD chain locker	
BHD (STF) - RDG no.7	SK18-B	7.9	25	5.9	7.5	0.4	5.06	7.7	0.2	2.53		BHD chain locker	
BHD (STF FLG) - RDG no.7	SK18-B	7.9	25	5.9	7.8	0.1	1.27	7.3	0.6	7.59		BHD chain locker	
BKT (upper) - RDG no.8	SK18-B	9.5	25	7.1	9.8	0	0	9.7	0	0		BHD chain locker	
BHD (STF) - RDG no.9	SK18-B	7.9	25	5.9	8	0	0	7.8	0.1	1.27		BHD chain locker	
BHD (STF FLG) - RDG no.9	SK18-B	7.9	25	5.9	7.5	0.4	5.06	7.9	0	0		BHD chain locker	
BHD plating - RDG no.10	SK18-B	9.5	30	6.7	9.6	0	0	9.4	0.1	1.05		BHD chain locker	
Web - Reading no.11	SK18-B	9.5	25	7.1	9.3	0.2	2.11	9.7	0	0			
Web - Reading no.12	SK18-B	9.5	25	7.1	9.5	0	0	8.9	0.6	6.32			
BKT (upper) - RDG no.13	SK18-B	9.5	25	7.1	9.7	0	0	9.2	0.3	3.16			
Web (STF) - RDG no.14	SK18-B	7.9	25	5.9	7.5	0.4	5.06	7.4	0.5	6.33			
Web (STF FLG) - RDG no.14	SK18-B	7.9	25	5.9	7.8	0.1	1.27	6.8	1.1	13.92			
BKT (upper) - RDG no.15	SK18-B	9.5	25	7.1	9.6	0	0	9.4	0.1	1.05			
Web (STF) - RDG no.16	SK18-B	7.9	25	5.9	7.7	0.2	2.53	7.7	0.2	2.53			
Web (STF FLG) - RDG no.16	SK18-B	7.9	25	5.9	7	0.9	11.39	7	0.9	11.39			
Web - Reading no.17	SK18-B	9.5	25	7.1	9.2	0.3	3.16	9.7	0	0			

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Fore Peak										
Location of Structure :			Transverse Web - Frame No. 191A										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
Web (STF) - RDG no.18	SK18-B	7.9	25	5.9	7.9	0	0		8	0	0		
Web (STF FLG) - RDG no.18	SK18-B	7.9	25	5.9	7.8	0.1	1.27		7	0.9	11.39		
Web - Reading no.19	SK18-B	15.9	25	11.9	15.8	0.1	0.63		15.8	0.1	0.63		
Web - Reading no.20	SK18-B	15.9	25	11.9	15.7	0.2	1.26		15.3	0.6	3.77		
STR K (web OB) - RDG no.21	SK18-B	12.7	25	9.5	12.5	0.2	1.57		10.6	2.1	16.54		
STR K (web IB) - RDG no.21	SK18-B	12.7	25	9.5	13	0	0		12.5	0.2	1.57		
STR K (FF) - RDG no.21	SK18-B	19.1	25	14.3	18.6	0.5	2.62		18.6	0.5	2.62		
Web (STF) - RDG no.22	SK18-B	7.9	25	5.9	8	0	0		6.9	1	12.66		
Web (STF FLG) - RDG no.22	SK18-B	7.9	25	5.9	7.8	0.1	1.27		6.3	1.6	20.25		
Web - Reading no.23	SK18-B	15.9	25	11.9	16	0	0		15.8	0.1	0.63		
BKT (lower) - RDG no.24	SK18-B	9.5	25	7.1	9.5	0	0		7.9	1.6	16.84		
Web - Reading no.25	SK18-B	15.9	25	11.9	16.1	0	0		16	0	0		
Web (STF) - RDG no.26	SK18-B	7.9	25	5.9	7.1	0.8	10.13		7.9	0	0		
Web (STF FLG) - RDG no.26	SK18-B	7.9	25	5.9	7.8	0.1	1.27		6.8	1.1	13.92		
BKT (lower) - RDG no.27	SK18-B	9.5	25	7.1	9.8	0	0		9.8	0	0		
Web - Reading no.28	SK18-B	15.9	25	11.9	15.2	0.7	4.4		14.4	1.5	9.43		
STR F (web OB) - RDG no.29	SK18-B	12.7	25	9.5	13.2	0	0		12.8	0	0		
STR F (web IB) - RDG no.29	SK18-B	12.7	25	9.5	12.8	0	0		12.5	0.2	1.57		
STR F (FF) - RDG no.29	SK18-B	19.1	25	14.3	17.7	1.4	7.33		18.4	0.7	3.66		
BHD plating - RDG no.30	SK18-B	9.5	30	6.7	9.2	0.3	3.16		9.5	0	0	BHD chain locker	
BHD plating - RDG no.31	SK18-B	9.5	30	6.7	9.6	0	0		9.5	0	0	BHD chain locker	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Fore Peak										
Location of Structure :			Transverse Web - Frame No. 191A										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BHD plating - RDG no.32	SK18-B	15.9	30	11.1	14.4	1.5	9.43		14.2	1.7	10.69	BHD chain locker	
BHD plating - RDG no.33	SK18-B	15.9	30	11.1	14.4	1.5	9.43		15.4	0.5	3.14	BHD chain locker	
Web - Reading no.34	SK18-B	15.9	25	11.9	15.2	0.7	4.4		15	0.9	5.66		
Web (STF) - RDG no.35	SK18-B	7.9	25	5.9	7.5	0.4	5.06		7.7	0.2	2.53		
Web (STF FLG) - RDG no.35	SK18-B	7.9	25	5.9	7.2	0.7	8.86		7.8	0.1	1.27		
BKT (lower) - RDG no.36	SK18-B	9.5	25	7.1	9.3	0.2	2.11		8.9	0.6	6.32		
Flat 23'-0" - RDG no.37	SK18-B	12.7	30	8.9	12.6	0.1	0.79		11.9	0.8	6.3		
Flat 23'-0" - RDG no.38	SK18-B	12.7	30	8.9	12.6	0.1	0.79		12.4	0.3	2.36		
Flat 23'-0" - OB RDG no.39	SK18-B	12.7	25	9.5	11	1.7	13.39		10.1	2.6	20.47		
Flat 23'-0" - IB RDG no.39	SK18-B	12.7	25	9.5	12.1	0.6	4.72		11.4	1.3	10.24		
Web - Reading no.40	SK18-B	15.9	25	11.9	15.3	0.6	3.77		14.6	1.3	8.18		
Web - Reading no.41	SK18-B	15.9	25	11.9	18.2	0	0		18.4	0	0	Insert PS/SB	
Web (STF) - RDG no.42	SK18-B	7.9	25	5.9	7.9	0	0		8	0	0		
Web (STF FLG) - RDG no.42	SK18-B	7.9	25	5.9	7.6	0.3	3.8		7.4	0.5	6.33		
BKT (lower) - RDG no.43	SK18-B	9.5	25	7.1	8.9	0.6	6.32		8.9	0.6	6.32		
Web - Reading no.44	SK18-B	15.9	25	11.9	15.9	0	0		15.7	0.2	1.26		
Web (STF) - RDG no.45	SK18-B	7.9	25	5.9	7.9	0	0		7.9	0	0		
Web (STF FLG) - RDG no.45	SK18-B	7.9	25	5.9	7.3	0.6	7.59		7.4	0.5	6.33		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :		Fore Peak											
Location of Structure :		Transverse Web - Frame No. 195A											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
LBP - Reading no.1	SK18-C	9.5	25	7.1	9.6	0	0					Centerline BHD	
BKT (upper) - RDG no.2	SK18-C	9.5	25	7.1	9.2	0.3	3.16		9.3	0.2	2.11		
BKT FLG (upper) - RDG no.2	SK18-C	9.5	25	7.1	9.1	0.4	4.21		8.8	0.7	7.37		
LBP (STF) - upper RDG no.3	SK18-C	7.9	25	5.9	7.8	0.1	1.27					Centerline BHD STF	
LBP (STF FLG) - upper RDG no.3	SK18-C	7.9	25	5.9	7.3	0.6	7.59					Centerline BHD STF	
LBP - Reading no.4	SK18-C	9.5	25	7.1	9.7	0	0					Centerline BHD	
LBP (STF) - upper RDG no.5	SK18-C	7.9	25	5.9	7.9	0	0					Centerline BHD STF	
LBP (STF FLG) - upper RDG no.5	SK18-C	7.9	25	5.9	6.6	1.3	16.46					Centerline BHD STF	
BKT (lower) - RDG no.6	SK18-C	9.5	25	7.1	8.6	0.9	9.47		9.4	0.1	1.05		
BKT FLG (lower) - RDG no.6	SK18-C	9.5	25	7.1	8.2	1.3	13.68		9.1	0.4	4.21		
LBP - Reading no.7	SK18-C	15.9	25	11.9	16.1	0	0					Centerline BHD	
LBP - Reading no.8	SK18-C	15.9	25	11.9	16	0	0					Centerline BHD	
DB - upper RDG no.9	SK18-C	9.5	25	7.1	9.5	0	0		9.2	0.3	3.16		
DB - lower RDG no.10	SK18-C	9.5	25	7.1	9.5	0	0		9.5	0	0		
Deck beam (FF) - Reading no.11	SK18-C	12.7	25	9.5	12.1	0.6	4.72		12	0.7	5.51		
DGW - upper RDG no.12	SK18-C	9.5	25	7.1	9.7	0	0		9.5	0	0		
DGW - lower RDG no.12	SK18-C	9.5	25	7.1	9.5	0	0		9.1	0.4	4.21		
DGW (FLG) - RDG no.12	SK18-C	9.5	25	7.1	8.4	1.1	11.58		8.6	0.9	9.47		
DB - upper RDG no.13	SK18-C	9.5	25	7.1	9.5	0	0		9.8	0	0		
DB - lower RDG no.14	SK18-C	9.5	25	7.1	9.8	0	0		9.9	0	0		
Deck beam (FF) - Reading no.15	SK18-C	12.7	25	9.5	10.2	2.5	19.69		11.7	1	7.87		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :		Fore Peak											
Location of Structure :		Transverse Web - Frame No. 195A											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
Web - Reading no.16	SK18-C	15.9	25	11.9	15.5	0.4	2.52		16.1	0	0		
Web (STF) - Reading no.17	SK18-C	12.7	30	8.9	11.8	0.9	7.09		10.2	2.5	19.69		
Web - Reading no.18	SK18-C	15.9	25	11.9	15.9	0	0		14.8	1.1	6.92		
Web - Reading no.19	SK18-C	15.9	25	11.9	16	0	0		15.9	0	0		
Web (FF) - Reading no.20	SK18-C	19.1	25	14.3	18.7	0.4	2.09		18.1	1	5.24		
STR K (web OB) - RDG no.21	SK18-C	12.7	25	9.5	12.2	0.5	3.94		11.4	1.3	10.24		
STR K (web IB) - RDG no.21	SK18-C	12.7	25	9.5	13.3	0	0		12.7	0	0		
STR K (FF) - RDG no.21	SK18-C	19.1	25	14.3	19	0.1	0.52		18.5	0.6	3.14		
Web (STF) - Reading no.22	SK18-C	12.7	30	8.9	12.6	0.1	0.79		11.1	1.6	12.6		
Web - Reading no.23	SK18-C	15.9	25	11.9	16	0	0		15.9	0	0		
STR F (web OB) - RDG no.24	SK18-C	12.7	25	9.5	12.9	0	0		12.7	0	0		
STR F (web IB) - RDG no.24	SK18-C	12.7	25	9.5	13.3	0	0		12.6	0.1	0.79		
STR F (FF) - RDG no.24	SK18-C	19.1	25	14.3	19.1	0	0		18.3	0.8	4.19		
Web - Reading no.25	SK18-C	15.9	25	11.9	16	0	0		16.1	0	0		
Web (STF) - Reading no.26	SK18-C	12.7	30	8.9	12.8	0	0		12.6	0.1	0.79		
Web - Reading no.27	SK18-C	15.9	25	11.9	14.9	1	6.29		15.6	0.3	1.89		
STR (intcl) - OB Reading no.28	SK18-C	15.9	25	11.9	14.9	1	6.29		15	0.9	5.66		
STR (intcl) - IB Reading no.28	SK18-C	15.9	25	11.9	15.4	0.5	3.14		15.6	0.3	1.89		
Web (STF) - Reading no.29	SK18-C	12.7	30	8.9	12.6	0.1	0.79		12.8	0	0		
Web - Reading no.30	SK18-C	15.9	25	11.9	16.1	0	0		16.1	0	0		
Web - Reading no.31	SK18-C	15.9	25	11.9	16	0	0		15.7	0.2	1.26		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :		Fore Peak											
Location of Structure :		Transverse Web - Frame No. 199A											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
LBP - Reading no.1	SK18-D	15.9	25	11.9	15.9	0	0					Centerline BHD	
BKT (upper) - RDG no.2	SK18-D	9.5	25	7.1	9.5	0	0		9.5	0	0		
BKT FLG (upper) - RDG no.2	SK18-D	9.5	25	7.1	9.4	0.1	1.05		8.9	0.6	6.32		
LBP (STF) - upper RDG no.3	SK18-D	7.9	25	5.9	7.8	0.1	1.27					Centerline BHD STF	
LBP (STF FLG) - upper RDG no.3	SK18-D	7.9	25	5.9	7.7	0.2	2.53					Centerline BHD STF	
LBP (STF) - upper RDG no.4	SK18-D	7.9	25	5.9	7.9	0	0					Centerline BHD STF	
LBP (STF FLG) - upper RDG no.4	SK18-D	7.9	25	5.9	7.6	0.3	3.8					Centerline BHD STF	
BKT (lower) - RDG no.5	SK18-D	9.5	25	7.1	8.3	1.2	12.63		9.7	0	0		
BKT FLG (lower) - RDG no.5	SK18-D	9.5	25	7.1	8.6	0.9	9.47		8.6	0.9	9.47		
LBP - Reading no.6	SK18-D	15.9	25	11.9	15.5	0.4	2.52					Centerline BHD	
LBP - Reading no.7	SK18-D	15.9	25	11.9	15.7	0.2	1.26					Centerline BHD	
DGW - upper RDG no.8	SK18-D	9.5	25	7.1	9.4	0.1	1.05		9.6	0	0		
DGW - lower RDG no.8	SK18-D	9.5	25	7.1	9.5	0	0		9.8	0	0		
DGW (FLG) - RDG no.8	SK18-D	9.5	25	7.1	8.9	0.6	6.32		9	0.5	5.26		
DB - upper RDG no.9	SK18-D	9.5	25	7.1	9.4	0.1	1.05		9.5	0	0		
DB - lower RDG no.10	SK18-D	9.5	25	7.1	9.4	0.1	1.05		9.4	0.1	1.05		
Deck beam (FF) - Reading no.11	SK18-D	12.7	25	9.5	12.4	0.3	2.36		11.9	0.8	6.3		
Web - Reading no.12	SK18-D	15.9	25	11.9	15.8	0.1	0.63		16.1	0	0		
Web (STF) - Reading no.13	SK18-D	12.7	30	8.9	12.6	0.1	0.79		12.3	0.4	3.15		
Web - Reading no.14	SK18-D	15.9	25	11.9	16	0	0		15.9	0	0		
Web (STF) - Reading no.15	SK18-D	12.7	30	8.9	11.8	0.9	7.09		11.5	1.2	9.45		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Fore Peak										
Location of Structure :			Transverse Web - Frame No. 199A										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
Web - Reading no.16	SK18-D	15.9	25	11.9	16.1	0	0		15.6	0.3	1.89		
STR K (web OB) - RDG no.17	SK18-D	12.7	25	9.5	11.8	0.9	7.09		10.7	2	15.75		
STR K (web IB) - RDG no.17	SK18-D	12.7	25	9.5	13.2	0	0		12.4	0.3	2.36		
STR K (FF) - RDG no.17	SK18-D	19.1	25	14.3	18.6	0.5	2.62		18.9	0.2	1.05		
Web - Reading no.18	SK18-D	15.9	25	11.9	16	0	0		15.9	0	0		
Web (FF) - Reading no.19	SK18-D	19.1	25	14.3	18.9	0.2	1.05		18.6	0.5	2.62		
Web (STF) - Reading no.20	SK18-D	12.7	30	8.9	12.3	0.4	3.15		11.5	1.2	9.45		
Web - Reading no.21	SK18-D	15.9	25	11.9	15.9	0	0		15.6	0.3	1.89		
Web (STF) - Reading no.22	SK18-D	12.7	30	8.9	12.4	0.3	2.36		11.9	0.8	6.3		
STR F (web OB) - RDG no.23	SK18-D	12.7	25	9.5	15.5	0	0		14.9	0	0		
STR F (web IB) - RDG no.23	SK18-D	12.7	25	9.5	15.8	0	0		16	0	0		
Web - Reading no.24	SK18-D	15.9	25	11.9	15.5	0.4	2.52		15.8	0.1	0.63		
Web - Reading no.25	SK18-D	15.9	25	11.9	15.9	0	0		15.9	0	0		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Fore Peak										
Location of Structure :			Transverse Web - Frame No. 203A										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
Web - Reading no.1	SK18-E	15.9	25	11.9	15.8	0.1	0.63		15.8	0.1	0.63		
Web - Reading no.2	SK18-E	15.9	25	11.9	15.8	0.1	0.63		15.9	0	0		
Web - Reading no.3	SK18-E	15.9	25	11.9	15.9	0	0		15.8	0.1	0.63		
Hole ring IB - Reading no.4	SK18-E	12.7	25	9.5	12.6	0.1	0.79		12.2	0.5	3.94		
Hole ring OB - Reading no.5	SK18-E	12.7	25	9.5	11.9	0.8	6.3		12.8	0	0		
Web (STF) - Reading no.6	SK18-E	7.9	25	5.9	7.7	0.2	2.53		7.9	0	0		
Web (STF FLG) - Reading no.6	SK18-E	7.9	25	5.9	7.9	0	0		7.6	0.3	3.8		
Web (STF) - Reading no.7	SK18-E	7.9	25	5.9	7.9	0	0		7.1	0.8	10.13		
Web (STF FLG) - Reading no.7	SK18-E	7.9	25	5.9	7.8	0.1	1.27		7.1	0.8	10.13		
Web - Reading no.8	SK18-E	15.9	25	11.9	15.7	0.2	1.26		15.4	0.5	3.14		
Web - Reading no.9	SK18-E	15.9	25	11.9	14.6	1.3	8.18		15.4	0.5	3.14		
STR K (web OB) - RDG no.10	SK18-E	15.9	25	11.9	15.3	0.6	3.77		15.8	0.1	0.63		
STR K (web IB) - RDG no.10	SK18-E	15.9	25	11.9	15.3	0.6	3.77		15.9	0	0		
STR K (FF) - RDG no.10	SK18-E	19.1	25	14.3	18.4	0.7	3.66		18.4	0.7	3.66		
Ring OB - Reading no.11	SK18-E	15.9	25	11.9	16	0	0		15.3	0.6	3.77		
Web - Reading no.12	SK18-E	15.9	25	11.9	16.1	0	0		15.7	0.2	1.26		
Web - Reading no.13	SK18-E	15.9	25	11.9	15.7	0.2	1.26		16	0	0		
Ring IB - Reading no.14	SK18-E	15.9	25	11.9	15.7	0.2	1.26		15.5	0.4	2.52		
LBP - Reading no.15	SK18-E	15.9	25	11.9	16	0	0					Centerline BHD	
LBP - Reading no.16	SK18-E	15.9	25	11.9	16.1	0	0					Centerline BHD	
LBP - Reading no.17	SK18-E	15.9	25	11.9	15.7	0.2	1.26					Centerline BHD	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





# Thickness Measurement Report

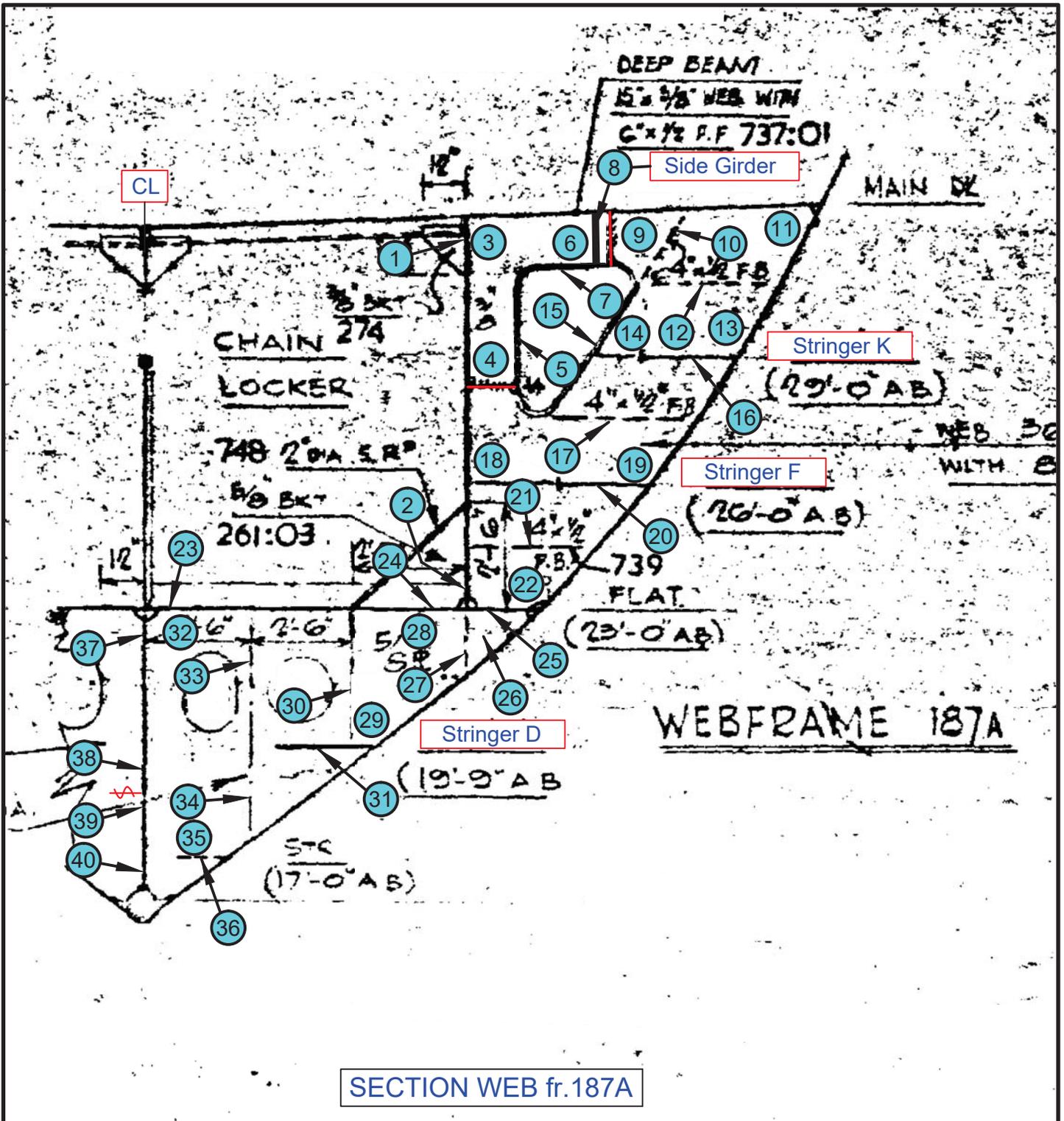
Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

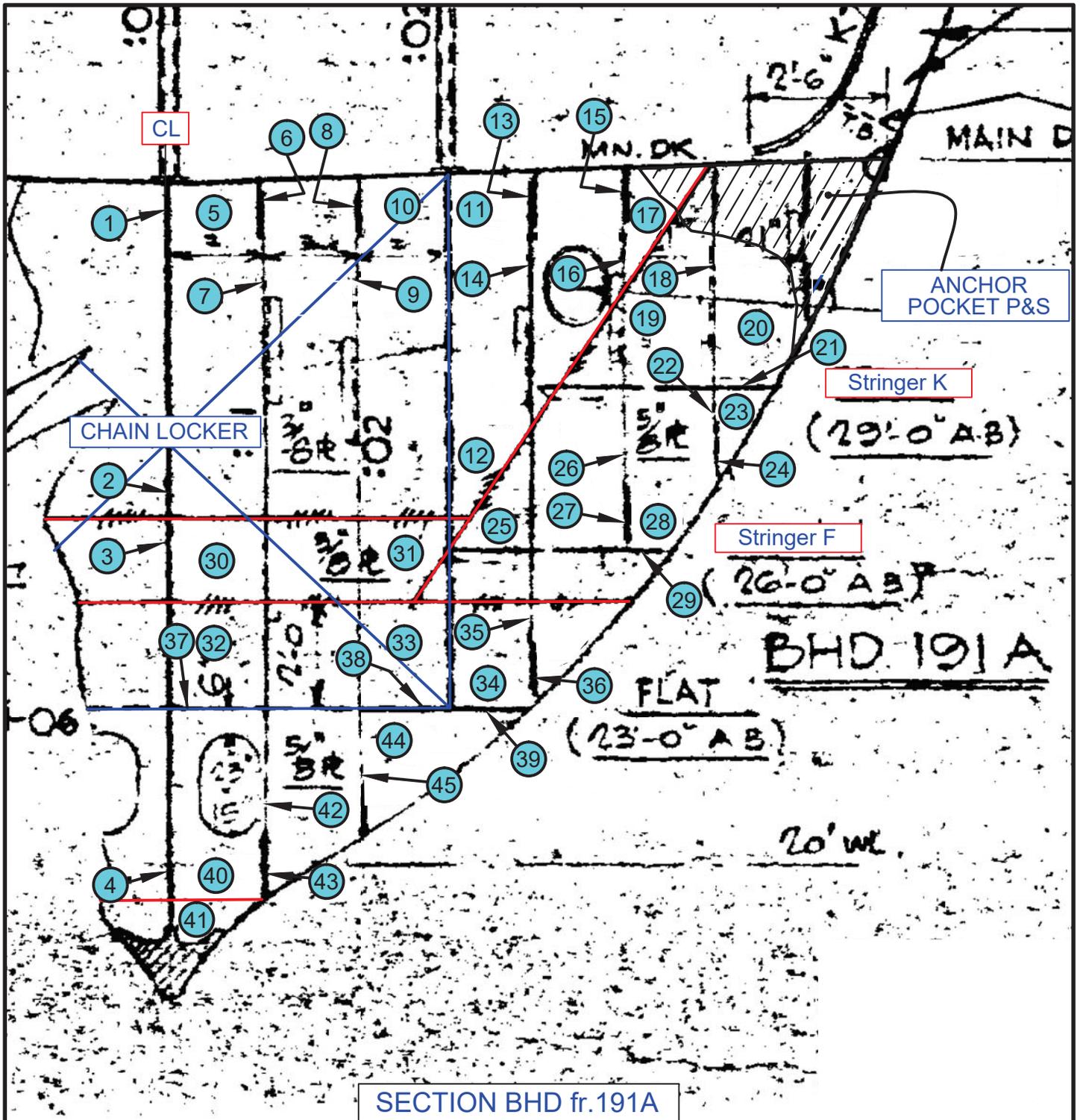
## Peak Tanks – Transverse Webs and Bulkheads - Fore Peak TM Sketches





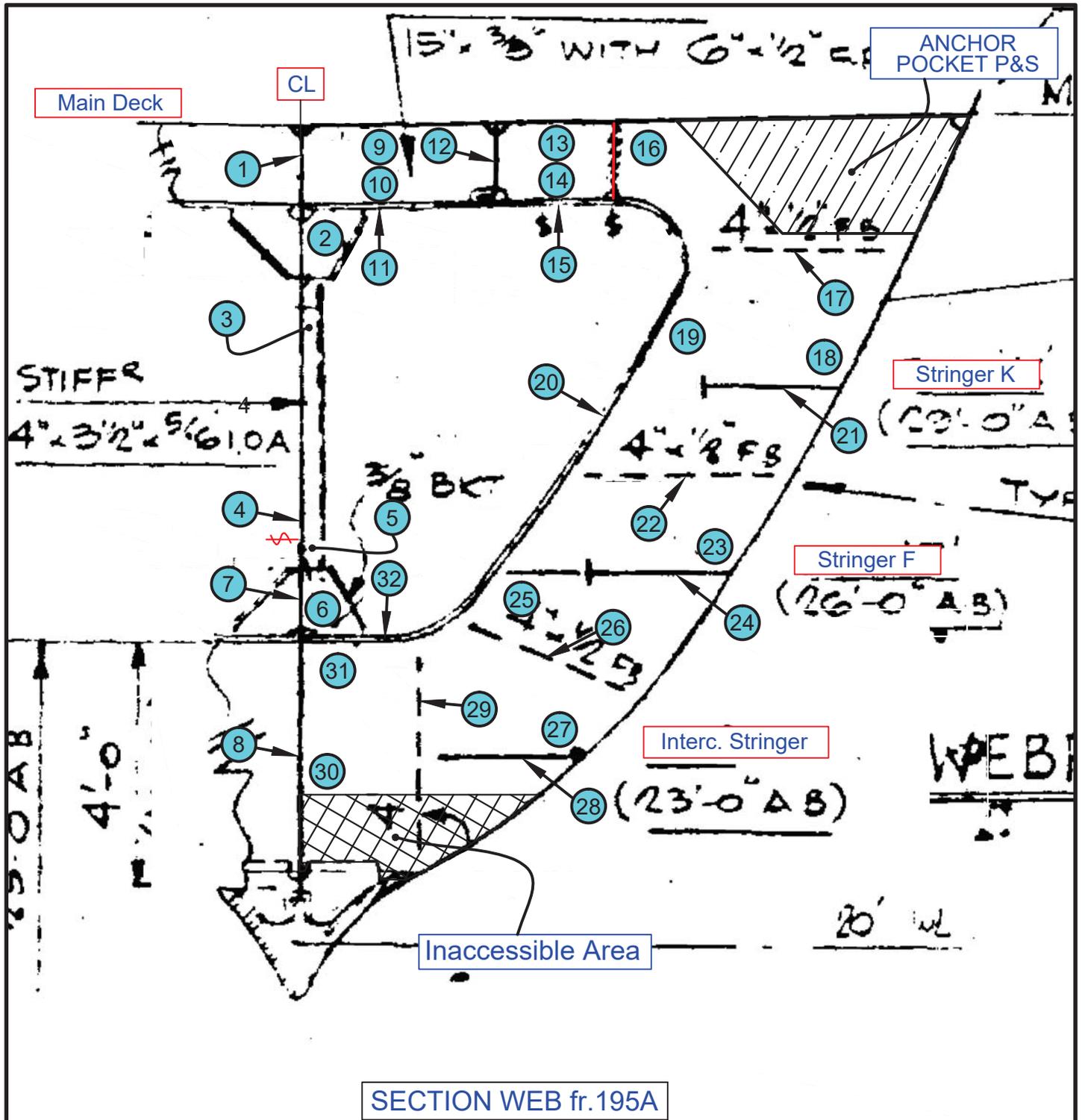
SECTION WEB fr.187A

Projet / Project N.G.C.C. Amundsen			
Titre / Title Membre transv. Coqueron avant-fr.187A(Transv.Web Fore peak) - SK18-A			
Client / Customer Travaux Publics et Services gouvernementaux Canada			
Préparé par / Prepared by Annie Truchon	Date 2018/01/05		
Dessin / Drawing # PGL-131-2017-A_utm report_forepeak_Amundsen_20180104.dwg		Format / Size Ansi A (V)	
		Rév. / Rev. # 0	



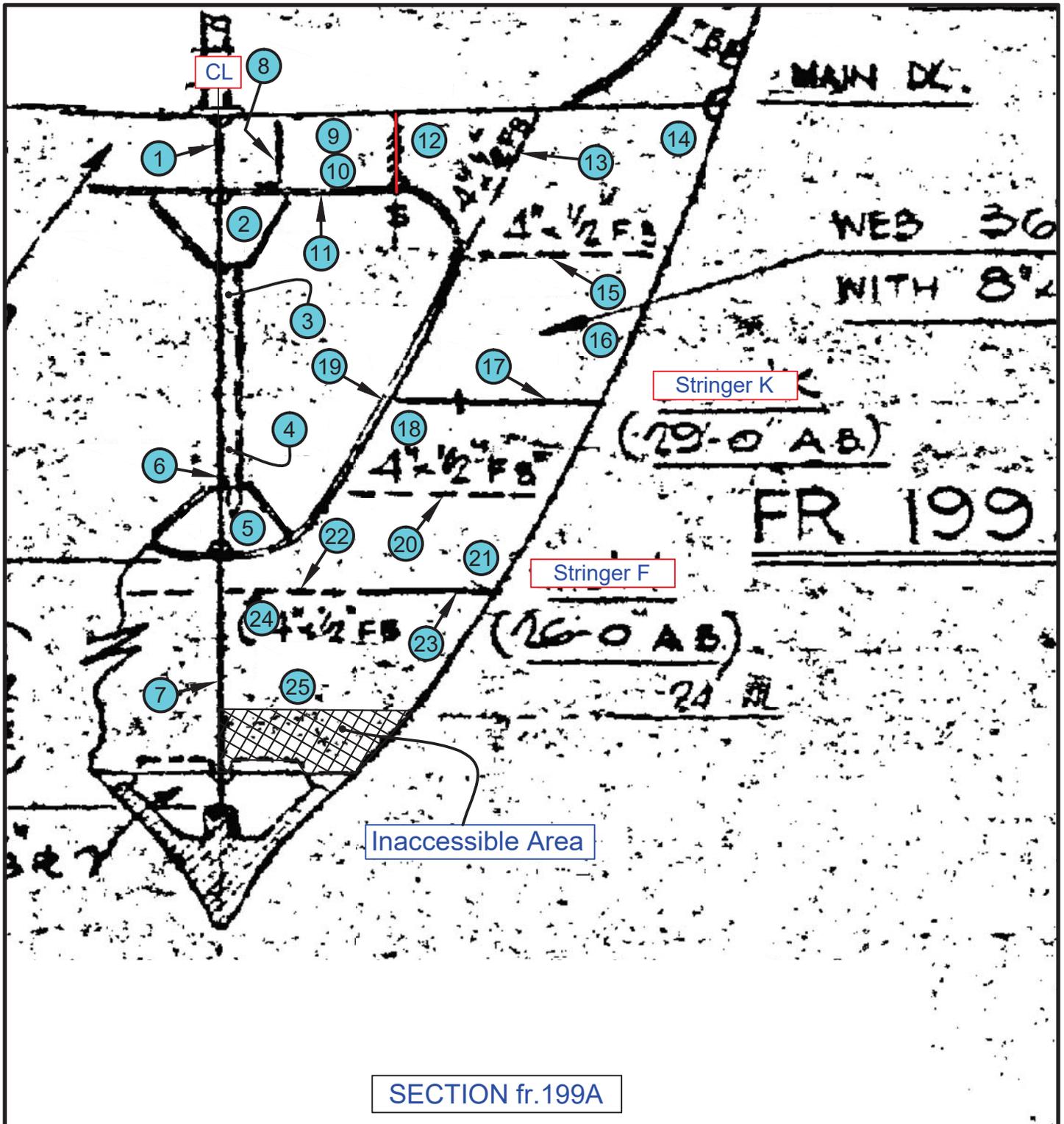
SECTION BHD fr. 191A

Projet / Project N.G.C.C. Amundsen				
Titre / Title Membre transv. Coqueron avant - fr. 191A (Transv.Web) - SK18-B				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Annie Truchon	Date 2018/01/05	Echelle / Scale Non à l'échelle	Feuille / Sheet # 2 de 5	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_forepeak_Amundsen_20180104.dwg			Rév. / Rev. # 0	

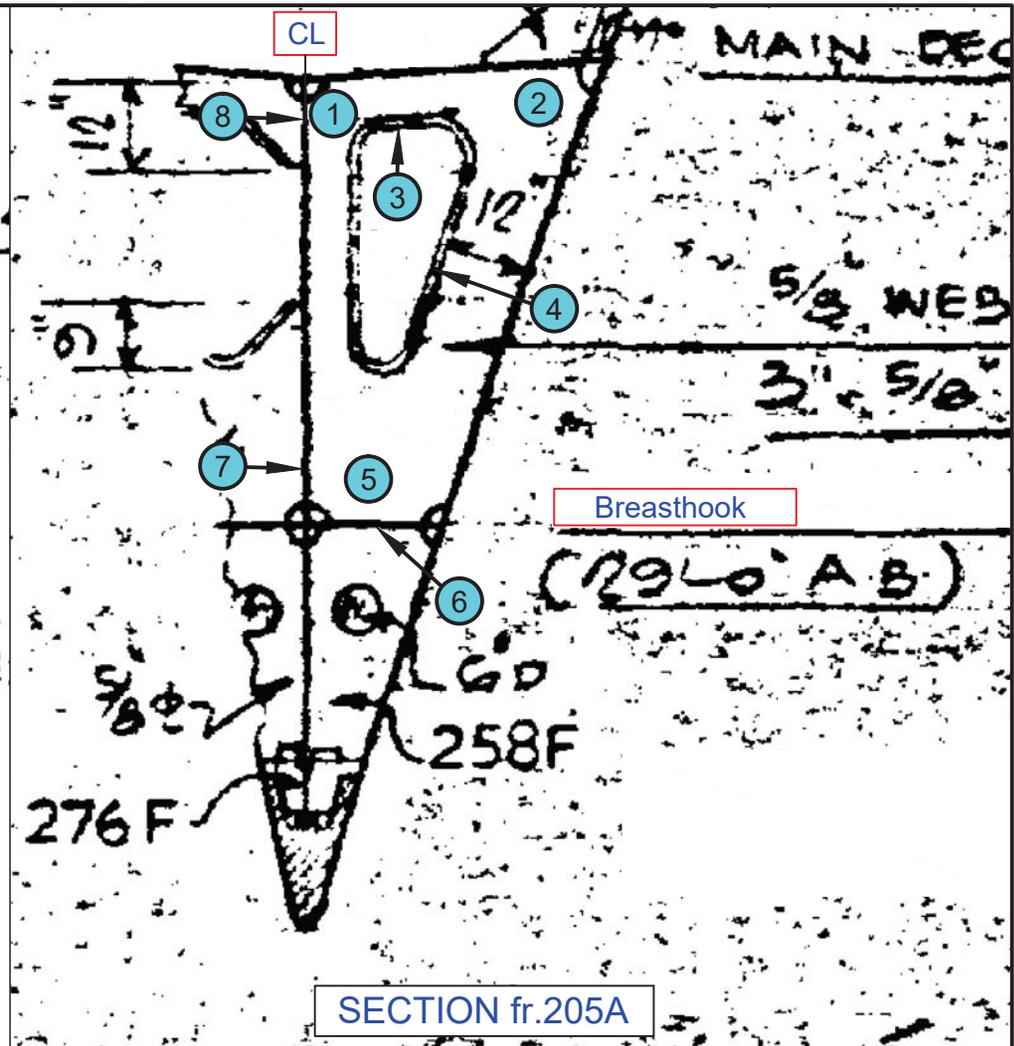
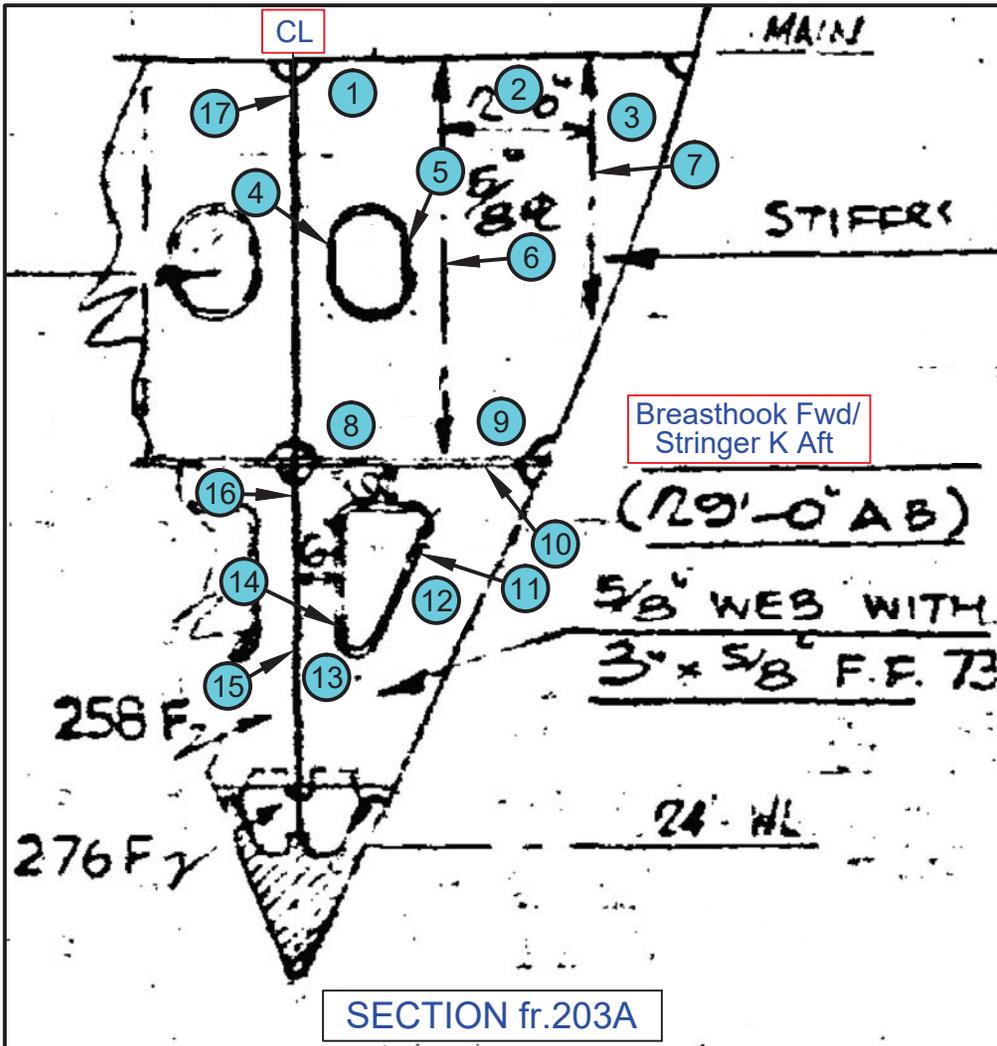


SECTION WEB fr.195A

Projet / Project N.G.C.C. Amundsen				
Titre / Title Membre transv. Coqueron avant-fr.195A(Transv.Web Fore peak) - SK18-C				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Annie Truchon	Date 2018/01/05	Echelle / Scale Non à l'échelle	Feuille / Sheet # 3 de 5	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_forepeak_Amundsen_20180104.dwg			Rév. / Rev. # 0	



Projet / Project N.G.C.C. Amundsen				
Titre / Title Membre transv. Coqueron avant-fr. 199A(Transv.Web Fore peak) - SK18-D				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Annie Truchon	Date 2018/01/05			Echelle / Scale Non à l'échelle
Dessin / Drawing # PGL-131-2017-A_utm report_forepeak_Amundsen_20180104.dwg		Format / Size Ansi A (V)		Rév. / Rev. # 0



Projet / Project  
N.G.C.C. Amundsen

Echelle / Scale  
Non à l'échelle

Titre / Title  
Membres transversaux Coqueron avant-fr.203A & 205A(Transv.webs Fore peak) - SK18-E

Feuille / Sheet #  
5 de 5

Client / Customer  
Travaux Publics et Services gouvernementaux Canada

Format / Size  
Ansi A (H)

Préparé par / Prepared by  
Annie Truchon

Date  
2018/01/05

Dessin / Drawing #  
PGL-131-2017-A\_utm report\_forepeak\_Amundsen\_20180104.dwg



Rév. / Rev. #  
0



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

Peak Tanks – Transverse Webs and Bulkheads -  
Aft Peak

TM Forms



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :					Aft Peak								
Location of Structure :					Frame No. 0								
Type of Bulkhead :					Transverse Bulkhead								
Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BHD plating - Reading no.1	SK10	15.9	30	11.1	15.7	0.2	1.26		15.6	0.3	1.89		
BHD plating - Reading no.2	SK10	15.9	30	11.1	15.8	0.1	0.63		15.7	0.2	1.26		
BHD plating - Reading no.3	SK10	7.9	30	5.5	7.6	0.3	3.8		8.4	0	0		
BHD plating - Reading no.4	SK10	7.9	30	5.5	7.7	0.2	2.53		8.4	0	0		
BHD plating - Reading no.5	SK10	7.9	30	5.5	7.3	0.6	7.59		8.1	0	0		
BHD plating - Reading no.6	SK10	15.9	30	11.1	15.9	0	0		16	0	0		
BHD plating - Reading no.7	SK10	15.9	30	11.1	15.8	0.1	0.63		15.9	0	0		
BHD plating - Reading no.8	SK10	7.9	30	5.5	7.9	0	0		7.8	0.1	1.27		
BHD plating - Reading no.9	SK10	7.9	30	5.5	8	0	0		8.1	0	0		
BHD plating - Reading no.10	SK10	7.9	30	5.5	7.7	0.2	2.53		7.5	0.4	5.06		
BHD plating - Reading no.11	SK10	15.9	30	11.1	15.4	0.5	3.14		16	0	0		
BHD plating - Reading no.12	SK10	15.9	30	11.1	15.8	0.1	0.63		15.9	0	0		
BHD plating - Reading no.13	SK10	7.9	30	5.5	8	0	0		7.9	0	0		
BHD plating - Reading no.14	SK10	7.9	30	5.5	7.1	0.8	10.13		7.8	0.1	1.27		
BHD plating - Reading no.15	SK10	15.9	30	11.1	15.8	0.1	0.63		16.1	0	0		
BHD plating - Reading no.16	SK10	15.9	30	11.1	15.5	0.4	2.52		15.7	0.2	1.26		
BHD plating - Reading no.17	SK10	7.9	30	5.5	8	0	0		8	0	0		
BHD plating - Reading no.18	SK10	7.9	30	5.5	7.8	0.1	1.27		7.4	0.5	6.33		
BHD STF - Reading no.19	SK10	7.9	25	5.9	7.7	0.2	2.53		7.8	0.1	1.27	Middle RDG	
BHD STF FLG - Reading no.19	SK10	7.9	25	5.9	7.2	0.7	8.86		6.3	1.6	20.25	Middle RDG	
BHD STF - Reading no.20	SK10	7.9	25	5.9					7.9	0	0	SB top RDG	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Aft Peak										
Location of Structure :			Transverse Web - Frame No. D										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
Web - Reading no.1	SK11-A	9.5	25	7.1	9	0.5	5.26		9.7	0	0		
Web - Reading no.2	SK11-A	9.5	25	7.1	9.6	0	0		8.7	0.8	8.42		
Web (FF) - Reading no.3	SK11-A	19.1	25	14.3	18.9	0.2	1.05		19.1	0	0		
Web - Reading no.4	SK11-A	9.5	25	7.1	9	0.5	5.26		9.3	0.2	2.11		
Web - Reading no.5	SK11-A	9.5	25	7.1	9.6	0	0		9.7	0	0		
Web (FF) - Reading no.6	SK11-A	19.1	25	14.3	18.9	0.2	1.05		19	0.1	0.52		
Web - Reading no.7	SK11-A	9.5	25	7.1	9.6	0	0		8.9	0.6	6.32		
Web - Reading no.8	SK11-A	9.5	25	7.1	9.7	0	0		9.6	0	0		
Web (FF) - Reading no.9	SK11-A	19.1	25	14.3	19	0.1	0.52		19.1	0	0		
Web (FF) - Reading no.10	SK11-A	19.1	25	14.3	19.6	0	0		19.6	0	0		
DGW - upper RDG no.11	SK11-A	9.5	25	7.1	9.7	0	0		9.7	0	0		
DGW - lower RDG no.11	SK11-A	9.5	25	7.1	9.7	0	0		9.6	0	0		
DGW (FLG) - RDG no.11	SK11-A	12.7	25	9.5	12	0.7	5.51		12.9	0	0		
Web (STF) - Reading no.12	SK11-A	12.7	30	8.9	12.7	0	0		12.5	0.2	1.57		
Web - Reading no.13	SK11-A	15.9	25	11.9	16.1	0	0		15.8	0.1	0.63		
Web - Reading no.14	SK11-A	15.9	25	11.9	14.7	1.2	7.55		14.8	1.1	6.92		
Web (STF) - Reading no.15	SK11-A	7.9	30	5.5	8.3	0	0		7.9	0	0		
Web (STF FLG) - Reading no.15	SK11-A	7.9	30	5.5	8.2	0	0		7.3	0.6	7.59		
Web - Reading no.16	SK11-A	15.9	25	11.9	16	0	0		15.8	0.1	0.63		
STR 1F (web OB) - RDG no.17	SK11-A	12.7	25	9.5	12.8	0	0		12.1	0.6	4.72		
STR 1F (web IB) - RDG no.17	SK11-A	12.7	25	9.5	13.1	0	0		12.8	0	0		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Aft Peak										
Location of Structure :			Transverse Web - Frame No. D										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
STR 1F (FF) - RDG no.17	SK11-A	19.1	25	14.3	18.8	0.3	1.57		18.8	0.3	1.57		
STR 2D (web OB) - RDG no.18	SK11-A	12.7	25	9.5	13	0	0		12.9	0	0		
STR 2D (web IB) - RDG no.18	SK11-A	12.7	25	9.5	13	0	0		13.1	0	0		
STR 2D (FF) - RDG no.18	SK11-A	19.1	25	14.3	19	0.1	0.52		18.5	0.6	3.14		
Web - Reading no.19	SK11-A	15.9	25	11.9	16.1	0	0		15.8	0.1	0.63		
Web - Reading no.20	SK11-A	15.9	25	11.9	16.3	0	0		16.1	0	0		
Web (FF) - Reading no.21	SK11-A	19.1	25	14.3	19.1	0	0		18.1	1	5.24		
STR 1D (web OB) - RDG no.22	SK11-A	12.7	25	9.5	12.8	0	0		12.9	0	0		
STR 1D (web IB) - RDG no.22	SK11-A	12.7	25	9.5	12.9	0	0		13.4	0	0		
STR 1D (FF) - RDG no.22	SK11-A	19.1	25	14.3	18.7	0.4	2.09		18.8	0.3	1.57		
Web (STF) - Reading no.23	SK11-A	12.7	30	8.9	12.7	0	0		12.6	0.1	0.79		
Web - Reading no.24	SK11-A	15.9	25	11.9	16.4	0	0		16	0	0		
Web - Reading no.25	SK11-A	15.9	25	11.9	16.5	0	0		16.2	0	0		
Web (FF) - Reading no.26	SK11-A	19.1	25	14.3	19.3	0	0		19.5	0	0		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Aft Peak										
Location of Structure :			Transverse Web - Frame No. G										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
DGW - upper RDG no.1	SK11-A	9.5	25	7.1	9.3	0.2	2.11					Centerline girder	
DGW - lower RDG no.1	SK11-A	9.5	25	7.1	9.7	0	0					Centerline girder	
DGW (FLG) - RDG no.1	SK11-A	12.7	25	9.5	12.9	0	0					Centerline girder	
DB (web) - Reading no.2	SK11-A	7.9	25	5.9	8	0	0		8.1	0	0		
DB (FLG) - Reading no.2	SK11-A	7.9	25	5.9	6.2	1.7	21.52		6.6	1.3	16.46		
DB (web) - Reading no.3	SK11-A	7.9	25	5.9	7.8	0.1	1.27		8.2	0	0		
DB (FLG) - Reading no.3	SK11-A	7.9	25	5.9	6.2	1.7	21.52		6	1.9	24.05		
DB (web) - Reading no.4	SK11-A	7.9	25	5.9	8	0	0		7.9	0	0		
DB (FLG) - Reading no.4	SK11-A	7.9	25	5.9	6.1	1.8	22.78		6.3	1.6	20.25		
BKT - Reading no.5	SK11-A	9.5	25	7.1	9.2	0.3	3.16		9.3	0.2	2.11		
DGW - upper RDG no.6	SK11-A	9.5	25	7.1	9.4	0.1	1.05		9.3	0.2	2.11		
DGW - lower RDG no.6	SK11-A	9.5	25	7.1	9.1	0.4	4.21		9.4	0.1	1.05		
DGW (FLG) - RDG no.6	SK11-A	12.7	25	9.5	12.4	0.3	2.36		12.7	0	0		
Web - Reading no.7	SK11-A	15.9	25	11.9	15	0.9	5.66		15	0.9	5.66		
Web - Reading no.8	SK11-A	15.9	25	11.9	15.4	0.5	3.14		13.5	2.4	15.09		
Web (STF) - Reading no.9	SK11-A	12.7	30	8.9	12.7	0	0		12.5	0.2	1.57		
Web - Reading no.10	SK11-A	15.9	25	11.9	15.9	0	0		15.9	0	0		
STR 1F (web OB) - RDG no.11	SK11-A	12.7	25	9.5	12.6	0.1	0.79		12.7	0	0		
STR 1F (web IB) - RDG no.11	SK11-A	12.7	25	9.5	12.9	0	0		13.1	0	0		
STR 1F (FF) - RDG no.11	SK11-A	19.1	25	14.3	19	0.1	0.52		18.8	0.3	1.57		
Web (FF) - Reading no.12	SK11-A	19.1	25	14.3	19.1	0	0		19	0.1	0.52		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Aft Peak										
Location of Structure :			Transverse Web - Frame No. G										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
STR 2D (web OB) - RDG no.13	SK11-A	12.7	25	9.5	13	0	0		12.7	0	0		
STR 2D (web IB) - RDG no.13	SK11-A	12.7	25	9.5	13.3	0	0		12.9	0	0		
STR 2D (FF) - RDG no.13	SK11-A	19.1	25	14.3	19	0.1	0.52		18.8	0.3	1.57		
Web - Reading no.14	SK11-A	15.9	25	11.9	16	0	0		15.9	0	0		
Web - Reading no.15	SK11-A	15.9	25	11.9	16.2	0	0		16.2	0	0		
Web (FF) - Reading no.16	SK11-A	19.1	25	14.3	19.3	0	0		18.4	0.7	3.66		
Web (STF) - Reading no.17	SK11-A	12.7	30	8.9	12.8	0	0		12.6	0.1	0.79		
Web (STF) - Reading no.18	SK11-A	12.7	30	8.9	12.7	0	0		12.4	0.3	2.36		
Web - Reading no.19	SK11-A	15.9	25	11.9	15.8	0.1	0.63		15.8	0.1	0.63		
Web - Reading no.20	SK11-A	15.9	25	11.9	16.2	0	0		16.5	0	0		
Web (FF) - Reading no.21	SK11-A	19.1	25	14.3	18.8	0.3	1.57		18.2	0.9	4.71		
BG (web) - lower Reading no.22	SK11-A	15.9	25	11.9	15.7	0.2	1.26					Centerline girder	
BG (web) - upper Reading no.23	SK11-A	15.9	25	11.9	16.1	0	0					Centerline girder	
BG (FF) - Reading no.24	SK11-A	19.1	25	14.3	18.9	0.2	1.05					Centerline girder	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Aft Peak										
Location of Structure :			Transverse Web - Transv.&Longt.BHD Trunk I.W.O. Fr.D										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BHD plating - Reading no.1	SK11-B	15.9	30	11.1	16	0	0		15.6	0.3	1.89		
BHD plating - Reading no.2	SK11-B	15.9	30	11.1	16	0	0		16.1	0	0		
BHD plating - Reading no.3	SK11-B	15.9	30	11.1	14	1.9	11.95					Port side only	
BHD plating - Reading no.4	SK11-B	15.9	30	11.1					14.7	1.2	7.55	Starboard side only	
BHD plating - Reading no.5	SK11-B	15.9	30	11.1	15.8	0.1	0.63		16.2	0	0		
BHD plating - Reading no.6	SK11-B	15.9	30	11.1	16.1	0	0		16.1	0	0		
BHD plating - Reading no.7	SK11-B	15.9	30	11.1	14.7	1.2	7.55		13.6	2.3	14.47		
BKT (upper) - Reading no.8	SK11-B	9.5	25	7.1	9.3	0.2	2.11		9.3	0.2	2.11		
BHD (STF) - Reading no.9	SK11-B	7.9	25	5.9	8	0	0		7.8	0.1	1.27		
BHD (STF FLG) - Reading no.9	SK11-B	7.9	25	5.9	8.2	0	0		8.2	0	0		
BHD (STF) - Reading no.10	SK11-B	7.9	25	5.9	8.3	0	0					Port side only	
BHD (STF FLG) - Reading no.10	SK11-B	7.9	25	5.9	7.3	0.6	7.59					Port side only	
BHD (STF) - Reading no.11	SK11-B	7.9	25	5.9					7.9	0	0	Starboard side only	
BHD (STF FLG) - Reading no.11	SK11-B	7.9	25	5.9					7.9	0	0	Starboard side only	
DGW - upper RDG no.12	SK11-B	9.5	25	7.1	9.4	0.1	1.05					Centerline girder	
DGW - lower RDG no.12	SK11-B	9.5	25	7.1	9.6	0	0					Centerline girder	
DGW (FLG) - RDG no.12	SK11-B	12.7	25	9.5	12.5	0.2	1.57					Centerline girder	
BG (web) - upper Reading no.13	SK11-B	15.9	25	11.9	16.3	0	0					Centerline girder	
BG (FF) - Reading no.13	SK11-B	19.1	25	14.3	19.3	0	0					Centerline girder	
LBP - Reading no.14	SK11-B	15.9	30	11.1	15.7	0.2	1.26		15.8	0.1	0.63		
LBP - Reading no.15	SK11-B	15.9	30	11.1	15.4	0.5	3.14		15.6	0.3	1.89		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :		Aft Peak											
Location of Structure :		Transverse Web - Frame No. K											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
DGW - upper RDG no.1	SK11-C	9.5	25	7.1	9.5	0	0					Centerline girder	
DGW - lower RDG no.1	SK11-C	9.5	25	7.1	9.7	0	0					Centerline girder	
DGW (FLG) - RDG no.1	SK11-C	12.7	25	9.5	12.4	0.3	2.36					Centerline girder	
BG (web) - upper Reading no.3	SK11-C	15.9	25	11.9	15.7	0.2	1.26					Centerline girder	
BG (web) - lower Reading no.3	SK11-C	15.9	25	11.9	15.5	0.4	2.52					Centerline girder	
BG (FF) - Reading no.4	SK11-C	19.1	25	14.3	19.4	0	0					Centerline girder	
Web - Reading no.5	SK11-C	15.9	25	11.9	15.2	0.7	4.4		16.2	0	0		
Web - Reading no.6	SK11-C	15.9	25	11.9	15.8	0.1	0.63		16.1	0	0		
Web - Reading no.7	SK11-C	15.9	25	11.9	15.7	0.2	1.26		15.6	0.3	1.89		
Web (STF) - Reading no.8	SK11-C	7.9	30	5.5	8	0	0		8.1	0	0		
Web (STF FLG) - Reading no.8	SK11-C	7.9	30	5.5	8	0	0		8	0	0		
Web (STF) - Reading no.9	SK11-C	7.9	30	5.5	8	0	0		7.7	0.2	2.53		
Web (STF FLG) - Reading no.9	SK11-C	7.9	30	5.5	7.7	0.2	2.53		7.8	0.1	1.27		
Web - Reading no.10	SK11-C	15.9	25	11.9	16.1	0	0		15.7	0.2	1.26		
Web - Reading no.11	SK11-C	15.9	25	11.9	16.1	0	0		16.5	0	0		
Web - Reading no.12	SK11-C	15.9	25	11.9	16.2	0	0		15.8	0.1	0.63		
Web (STF) - Reading no.13	SK11-C	7.9	30	5.5	8	0	0		8.2	0	0		
Web (STF FLG) - Reading no.13	SK11-C	7.9	30	5.5	8.1	0	0		8.1	0	0		
Web (STF) - Reading no.14	SK11-C	7.9	30	5.5	8	0	0		7.9	0	0		
Web (STF FLG) - Reading no.14	SK11-C	7.9	30	5.5	7.9	0	0		7.9	0	0		
STR 2D (web OB) - RDG no.15	SK11-C	12.7	25	9.5	13.1	0	0		12.6	0.1	0.79		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Aft Peak										
Location of Structure :			Transverse Web - Frame No. K										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
STR 2D (web IB) - RDG no.15	SK11-C	12.7	25	9.5	12.9	0	0		13	0	0		
STR 2D (FF) - RDG no.15	SK11-C	19.1	25	14.3	19	0.1	0.52		18.8	0.3	1.57		
DGW - upper RDG no.16	SK11-C	9.5	25	7.1	9.5	0	0		9.3	0.2	2.11		
DGW - lower RDG no.16	SK11-C	9.5	25	7.1	9.8	0	0		9.8	0	0		
DGW (FLG) - RDG no.16	SK11-C	12.7	25	9.5	12.2	0.5	3.94		12.7	0	0		
Web (STF) - Reading no.17	SK11-C	7.9	30	5.5	7.9	0	0		7.7	0.2	2.53		
Web (STF FLG) - Reading no.17	SK11-C	7.9	30	5.5	8.1	0	0		7.2	0.7	8.86		
Web - Reading no.18	SK11-C	15.9	25	11.9	15.8	0.1	0.63		16.2	0	0		
Web - Reading no.19	SK11-C	15.9	25	11.9	16.2	0	0		15.2	0.7	4.4		
STR 1F (web OB) - RDG no.20	SK11-C	12.7	25	9.5	13.1	0	0		13.3	0	0		
STR 1F (web IB) - RDG no.20	SK11-C	12.7	25	9.5	13	0	0		13	0	0		
STR 1F (FF) - RDG no.20	SK11-C	19.1	25	14.3	18.7	0.4	2.09		18.5	0.6	3.14		
Web (STF) - Reading no.21	SK11-C	12.7	30	8.9	12.5	0.2	1.57		13.3	0	0		
Web - Reading no.22	SK11-C	15.9	25	11.9	14.5	1.4	8.81		14.4	1.5	9.43		

- Excessive Diminution
- Substantial Corrosion
- Renewed As Built
- Renewed other than As Built
- Missing Reading
- Abnormally High Reading
- Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :		Aft Peak											
Location of Structure :		Transverse Web - Frame No. L											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BG (web) - Reading no.1	SK11-C	15.9	25	11.9	16.2	0	0					Centerline girder	
BG (web) - Reading no.2	SK11-C	15.9	25	11.9	16.2	0	0					Centerline girder	
BG (web) - Reading no.3	SK11-C	15.9	25	11.9	16.3	0	0					Centerline girder	
Web - Reading no.4	SK11-C	15.9	25	11.9	15	0.9	5.66		15.5	0.4	2.52		
Web - Reading no.5	SK11-C	15.9	25	11.9	15.8	0.1	0.63		15.3	0.6	3.77		
Web - Reading no.6	SK11-C	15.9	25	11.9	15.2	0.7	4.4		14.9	1	6.29		
Web (STF) - Reading no.7	SK11-C	7.9	30	5.5	8.3	0	0		6.5	1.4	17.72		
Web (STF FLG) - Reading no.7	SK11-C	7.9	30	5.5	8	0	0		6.3	1.6	20.25		
Web (STF) - Reading no.8	SK11-C	7.9	30	5.5	8.1	0	0		8.1	0	0		
Web (STF FLG) - Reading no.8	SK11-C	7.9	30	5.5	7.9	0	0		7.9	0	0		
Web (STF) - Reading no.9	SK11-C	7.9	30	5.5	7.4	0.5	6.33		8.1	0	0		
Web (STF FLG) - Reading no.9	SK11-C	7.9	30	5.5	7.3	0.6	7.59		7.9	0	0		
Web (STF) - Reading no.10	SK11-C	7.9	30	5.5	8.2	0	0		8.1	0	0		
Web (STF FLG) - Reading no.10	SK11-C	7.9	30	5.5	8.1	0	0		8	0	0		
Web - Reading no.11	SK11-C	15.9	25	11.9	14.7	1.2	7.55		15.1	0.8	5.03		
Web - Reading no.12	SK11-C	15.9	25	11.9	15.9	0	0		15.6	0.3	1.89		
Web (STF) - Reading no.13	SK11-C	7.9	30	5.5	12.6	0	0		12.8	0	0		
Web (STF) - Reading no.14	SK11-C	7.9	30	5.5	12.7	0	0		12.8	0	0		
Web (STF) - Reading no.15	SK11-C	7.9	30	5.5	12.7	0	0		12.7	0	0		
Web - Reading no.16	SK11-C	15.9	25	11.9	13.4	2.5	15.72		14.6	1.3	8.18		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :		Aft Peak											
Location of Structure :		Transverse Web - Frame No. M											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BG (web) - Reading no.1	SK11-D	15.9	25	11.9	15.9	0	0					Centerline girder	
BG (web) - Reading no.2	SK11-D	15.9	25	11.9	16	0	0					Centerline girder	
BG (web) - Reading no.3	SK11-D	15.9	25	11.9	16.3	0	0					Centerline girder	
Web - Reading no.4	SK11-D	15.9	25	11.9	15.8	0.1	0.63		14.7	1.2	7.55		
Web - Reading no.5	SK11-D	15.9	25	11.9	16	0	0		15.6	0.3	1.89		
Web - Reading no.6	SK11-D	15.9	25	11.9	15.3	0.6	3.77		15.3	0.6	3.77		
Web (STF) - Reading no.7	SK11-D	7.9	30	5.5	8.1	0	0		8.2	0	0		
Web (STF FLG) - Reading no.7	SK11-D	7.9	30	5.5	7.2	0.7	8.86		7.1	0.8	10.13		
Web (STF) - Reading no.8	SK11-D	7.9	30	5.5	8	0	0		8	0	0		
Web (STF FLG) - Reading no.8	SK11-D	7.9	30	5.5	7.7	0.2	2.53		7.3	0.6	7.59		
Web (STF) - Reading no.9	SK11-D	7.9	30	5.5	7.4	0.5	6.33		8.1	0	0		
Web (STF FLG) - Reading no.9	SK11-D	7.9	30	5.5	6.7	1.2	15.19		7.1	0.8	10.13		
Web (STF) - Reading no.10	SK11-D	7.9	30	5.5	8.1	0	0		8.2	0	0		
Web (STF FLG) - Reading no.10	SK11-D	7.9	30	5.5	7.9	0	0		8	0	0		
Web - Reading no.11	SK11-D	15.9	25	11.9	15.2	0.7	4.4		15.6	0.3	1.89		
Web - Reading no.12	SK11-D	15.9	25	11.9	15.9	0	0		15.7	0.2	1.26		
Web (STF) - Reading no.13	SK11-D	7.9	30	5.5	12.7	0	0		12.8	0	0		
Web (STF) - Reading no.14	SK11-D	7.9	30	5.5	12.9	0	0		12.6	0	0		
Web (STF) - Reading no.15	SK11-D	7.9	30	5.5	12.6	0	0		12.5	0	0		
Web - Reading no.16	SK11-D	15.9	25	11.9	14.7	1.2	7.55		14.3	1.6	10.06		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :			Aft Peak										
Location of Structure :			Transverse Web - Frame No. N										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(mm)
BG (web) - Reading no.1	SK11-D	15.9	25	11.9	16.2	0	0					Centerline girder	
BG (web) - Reading no.2	SK11-D	15.9	25	11.9	16	0	0					Centerline girder	
BG (web) - Reading no.3	SK11-D	15.9	25	11.9	16	0	0					Centerline girder	
Web - Reading no.4	SK11-D	15.9	25	11.9	16.1	0	0		16	0	0		
Web - Reading no.5	SK11-D	15.9	25	11.9	16.2	0	0		15.9	0	0		
Web - Reading no.6	SK11-D	15.9	25	11.9	16.1	0	0		14.9	1	6.29		
Web - Reading no.7	SK11-D	15.9	25	11.9	14.8	1.1	6.92		15.6	0.3	1.89		
Web - Reading no.8	SK11-D	15.9	25	11.9	16.4	0	0		16.1	0	0		
Web - Reading no.9	SK11-D	15.9	25	11.9	16.2	0	0		15.3	0.6	3.77		
Web - Reading no.10	SK11-D	15.9	25	11.9	15.7	0.2	1.26		16.1	0	0		
Web - Reading no.11	SK11-D	15.9	25	11.9	16.1	0	0		16.3	0	0		
Web - Reading no.12	SK11-D	15.9	25	11.9	16	0	0		15.7	0.2	1.26		
Web - Reading no.13	SK11-D	15.9	25	11.9	16	0	0		15.5	0.4	2.52		
Web - Reading no.14	SK11-D	15.9	25	11.9	15.6	0.3	1.89		14.8	1.1	6.92		
Web - Reading no.15	SK11-D	15.9	25	11.9	13.7	2.2	13.84		14.5	1.4	8.81		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :		Aft Peak											
Location of Structure :		Transverse Web - Cant Floor Nos.3-5-6-7											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
CANT FLOOR NO.3													
Floor web - Reading no.1	SK11-F	15.9	25	11.9	15.6	0.3	1.89		16.4	0	0		
Floor (FF) - Reading no.2	SK11-F	12.7	25	9.5	12.6	0.1	0.79		12.7	0	0		
Floor web - Reading no.3	SK11-F	15.9	25	11.9	15.6	0.3	1.89		15.1	0.8	5.03		
Floor web (STF) - Reading no.4	SK11-F	12.7	30	8.9	12.7	0	0		11.7	1	7.87		
Floor (FF) - Reading no.5	SK11-F	12.7	25	9.5	12.3	0.4	3.15		12.4	0.3	2.36		
Floor web (STF) - Reading no.6	SK11-F	12.7	30	8.9	10.6	2.1	16.54		12	0.7	5.51		
Floor web - Reading no.7	SK11-F	15.9	25	11.9	15.6	0.3	1.89		15.6	0.3	1.89		
CANT FLOOR NO.5													
Floor web - Reading no.1	SK11-F	15.9	25	11.9	16	0	0					Port side only	
Floor (FF) - Reading no.2	SK11-F	12.7	25	9.5	12.4	0.3	2.36					Port side only	
Floor web - Reading no.3	SK11-F	15.9	25	11.9	15.3	0.6	3.77					Port side only	
Floor (FF) - Reading no.4	SK11-F	12.7	25	9.5	12.7	0	0					Port side only	
Floor web - Reading no.5	SK11-F	15.9	25	11.9	15.5	0.4	2.52					Port side only	
CANT FLOOR NO.6													
Floor web - Reading no.1	SK11-F	15.9	25	11.9					16.1	0	0	Starboard side only	
Floor (FF) - Reading no.2	SK11-F	12.7	25	9.5					12.3	0.4	3.15	Starboard side only	
Floor web - Reading no.3	SK11-F	15.9	25	11.9					14.8	1.1	6.92	Starboard side only	
Floor (FF) - Reading no.4	SK11-F	12.7	25	9.5					11.5	1.2	9.45	Starboard side only	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





# Thickness Measurement Report

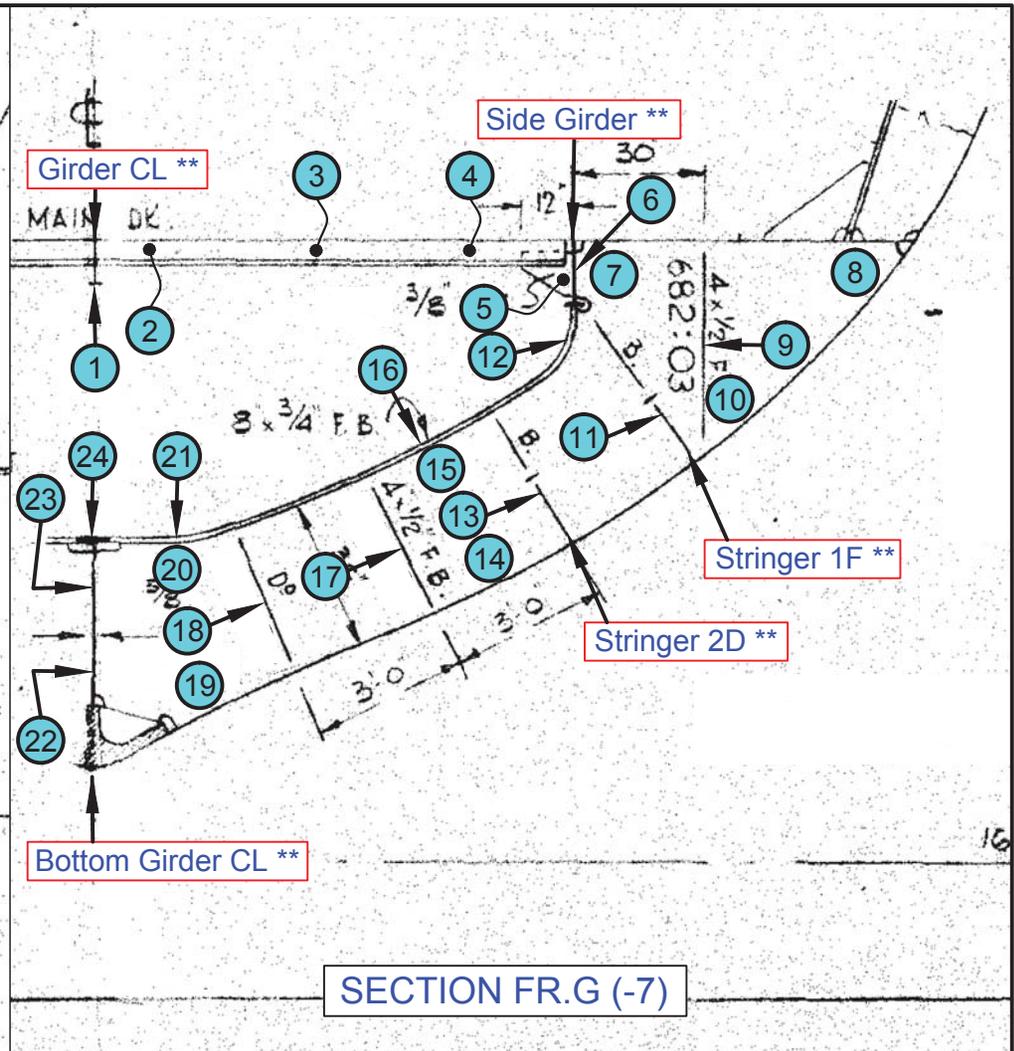
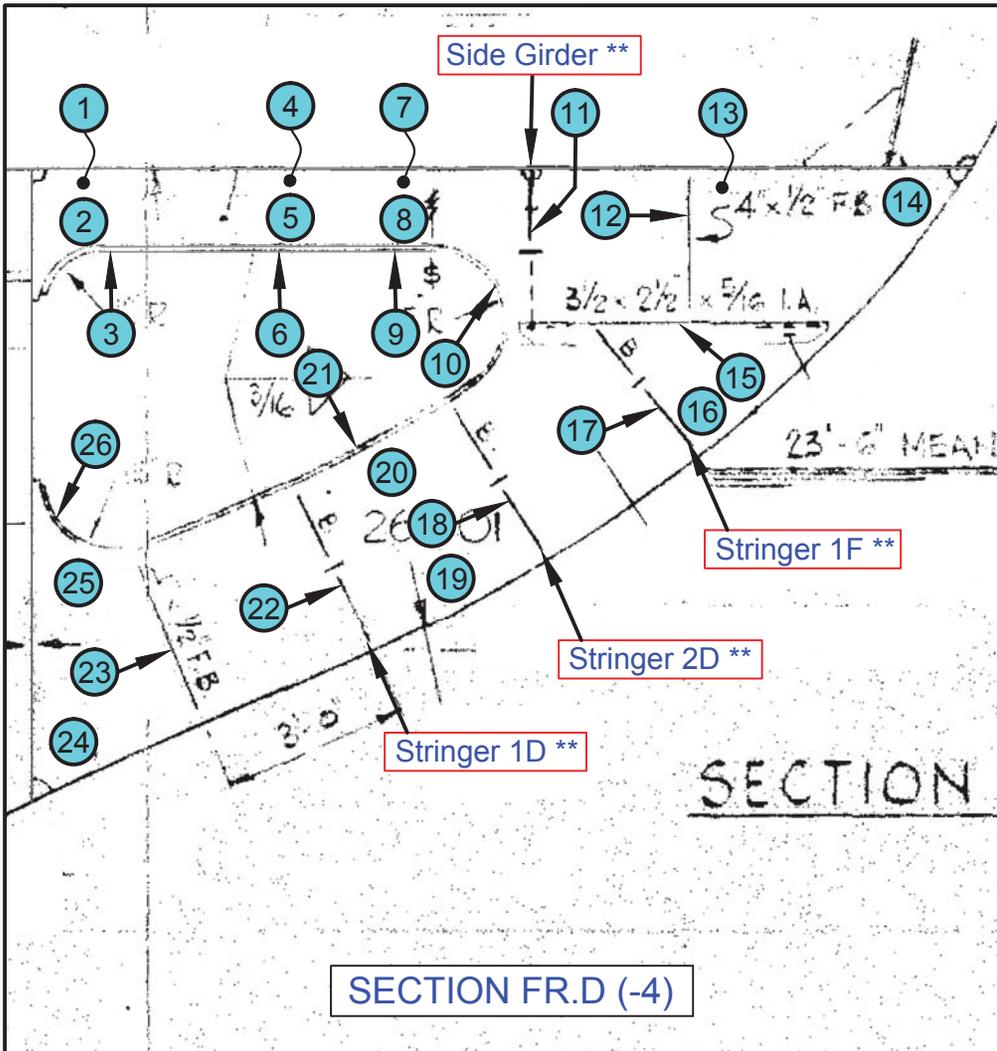
Ship's Name : Amundsen

LR/IMO Number : 7510846

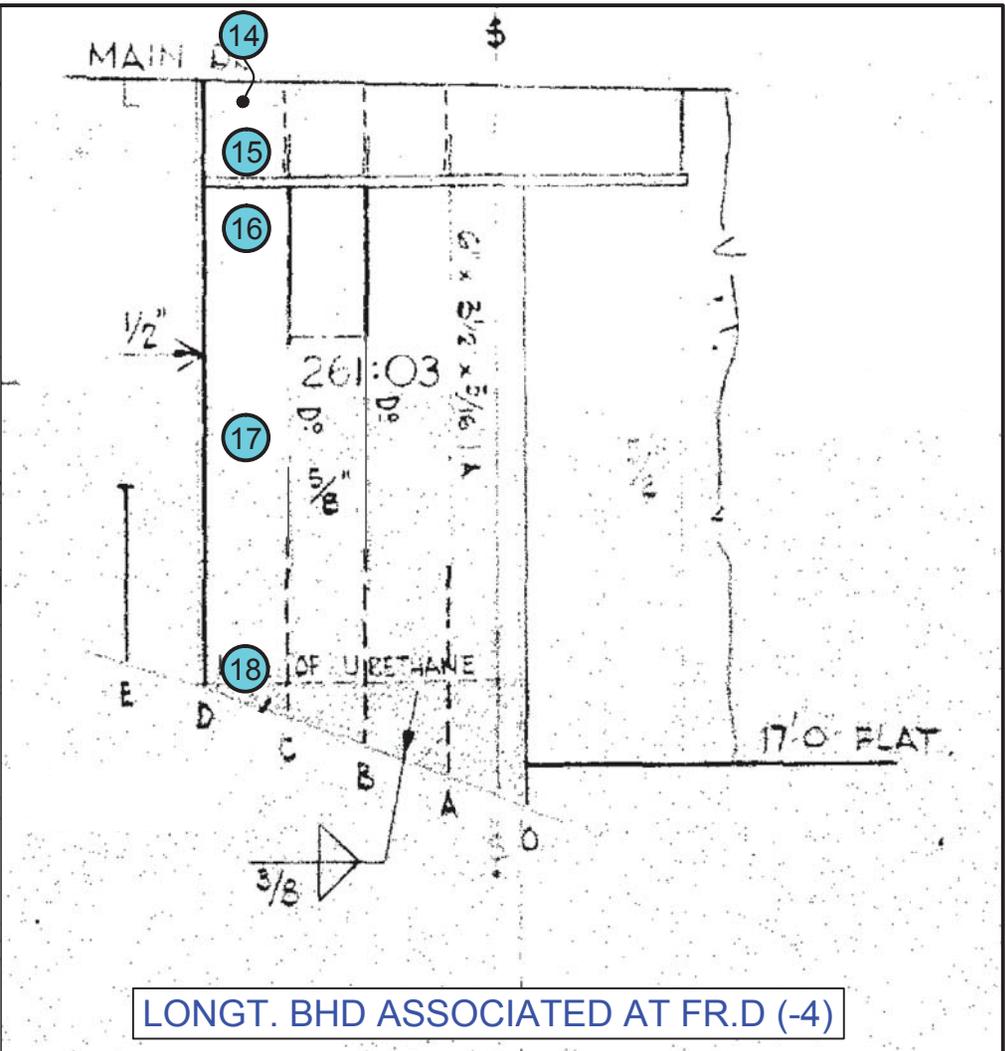
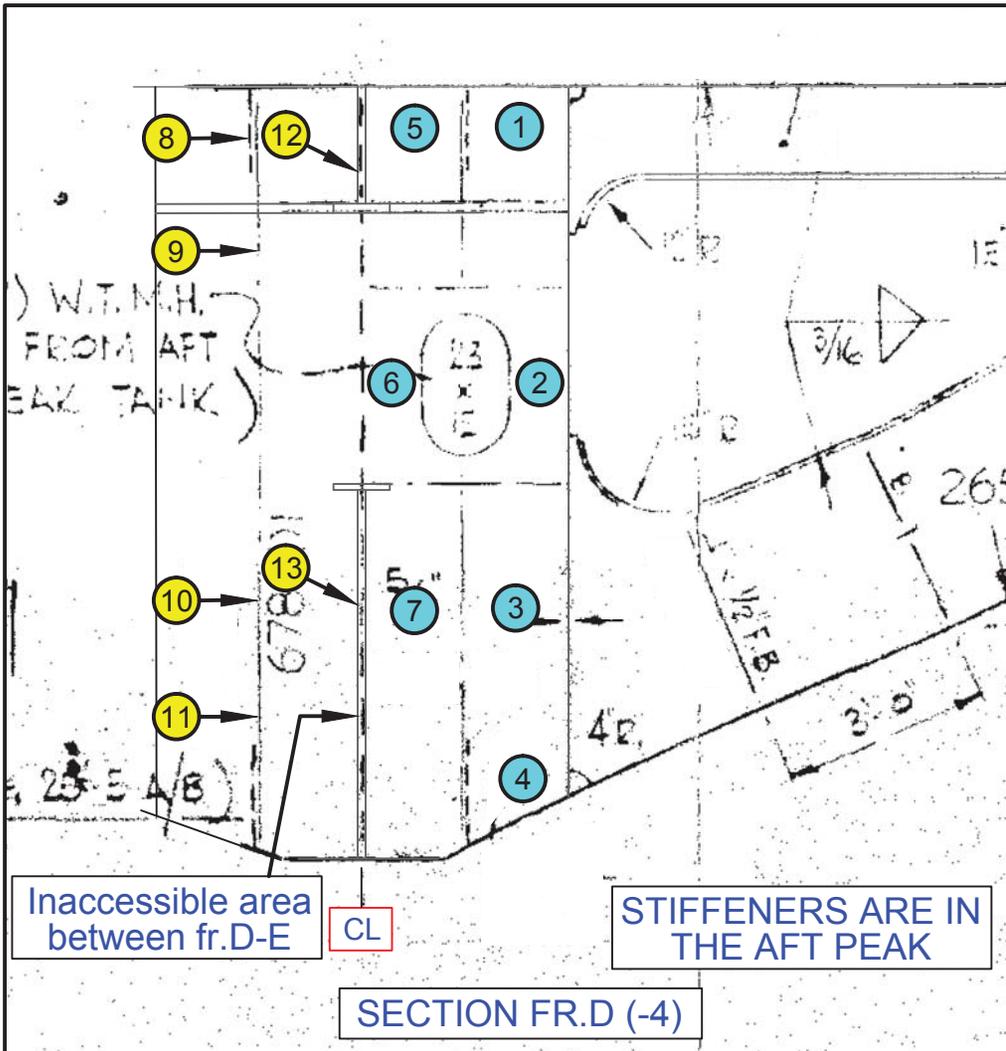
TM Report No : MTL1700708

## Peak Tanks – Transverse Webs and Bulkheads - Aft Peak TM Sketches

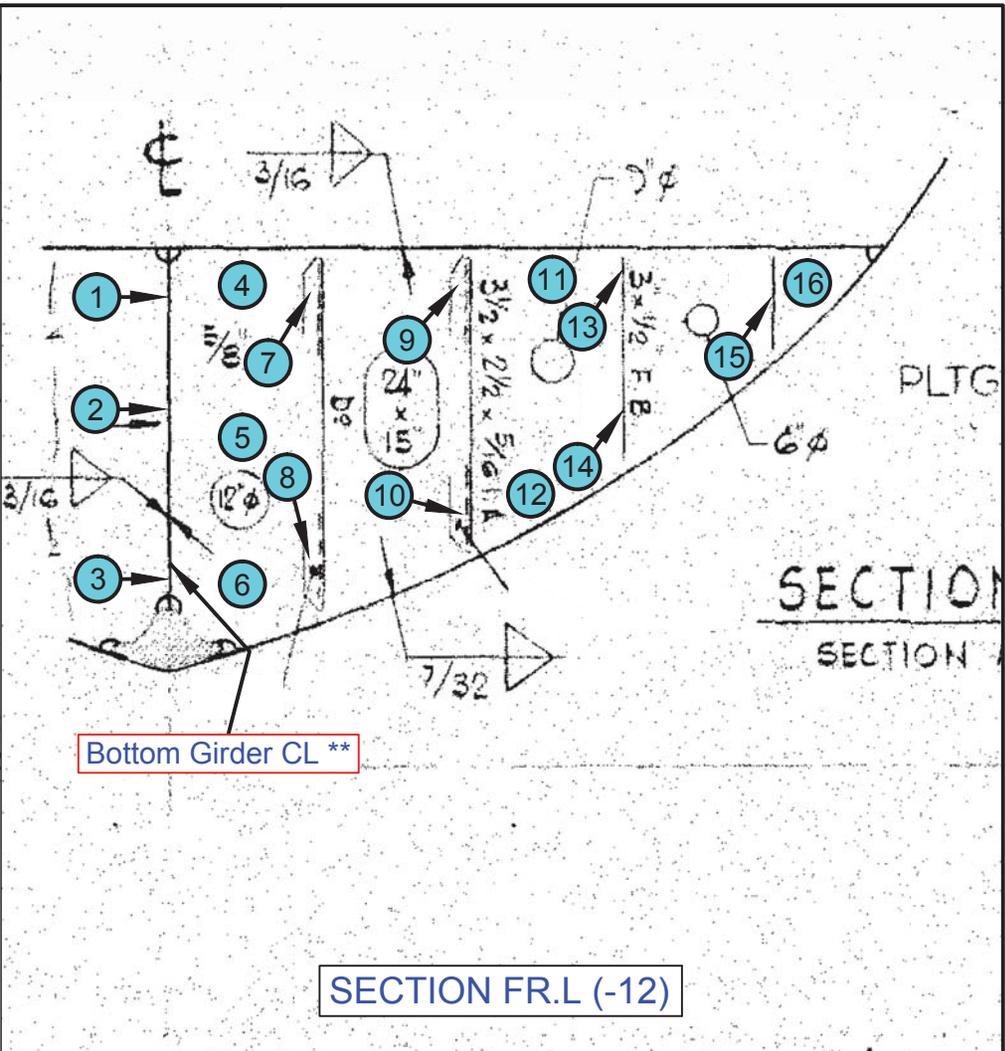
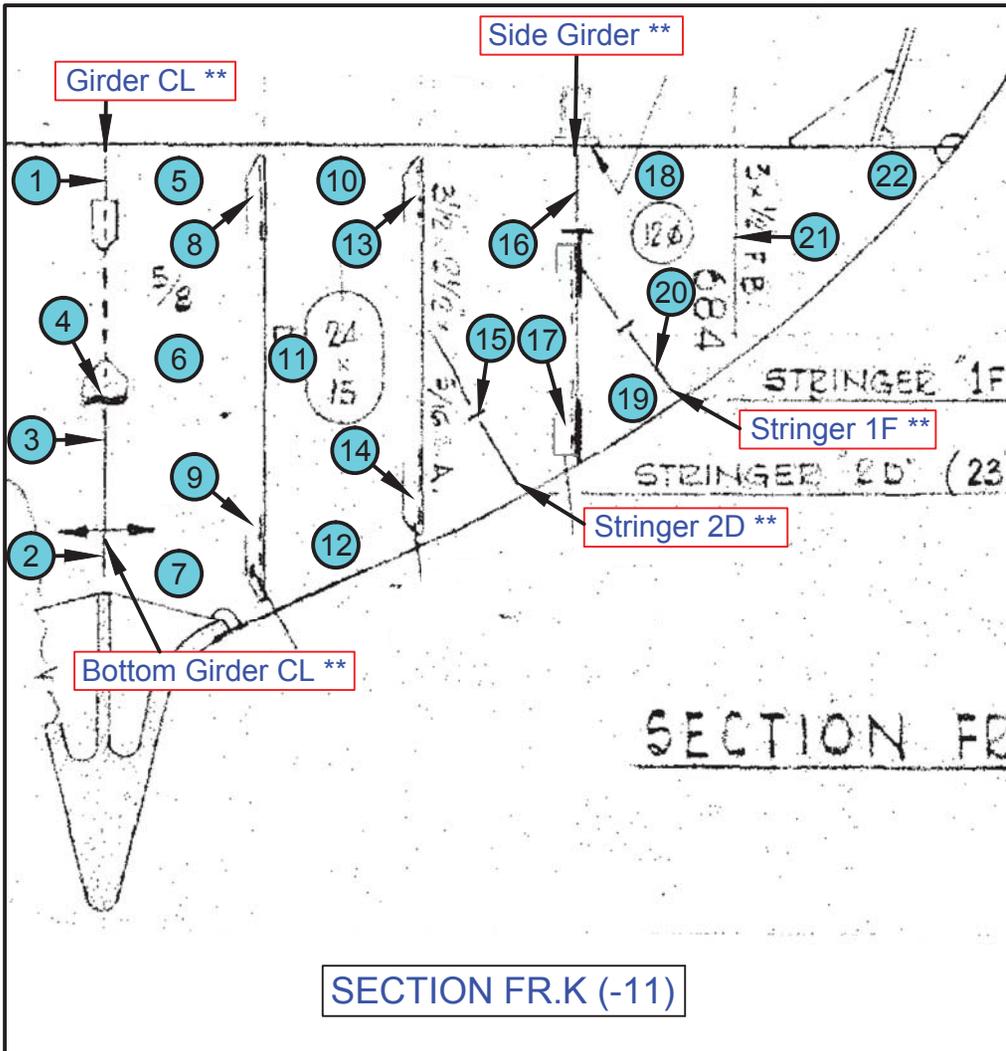




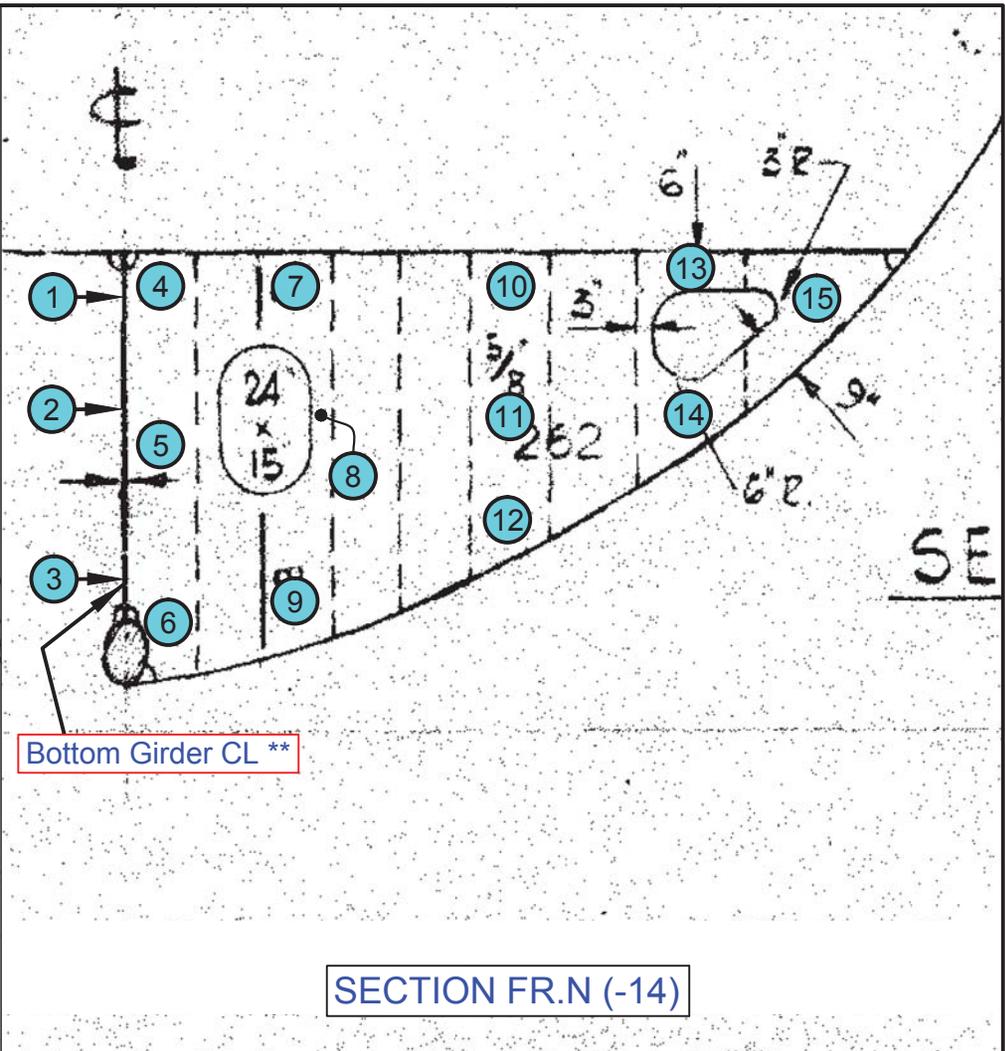
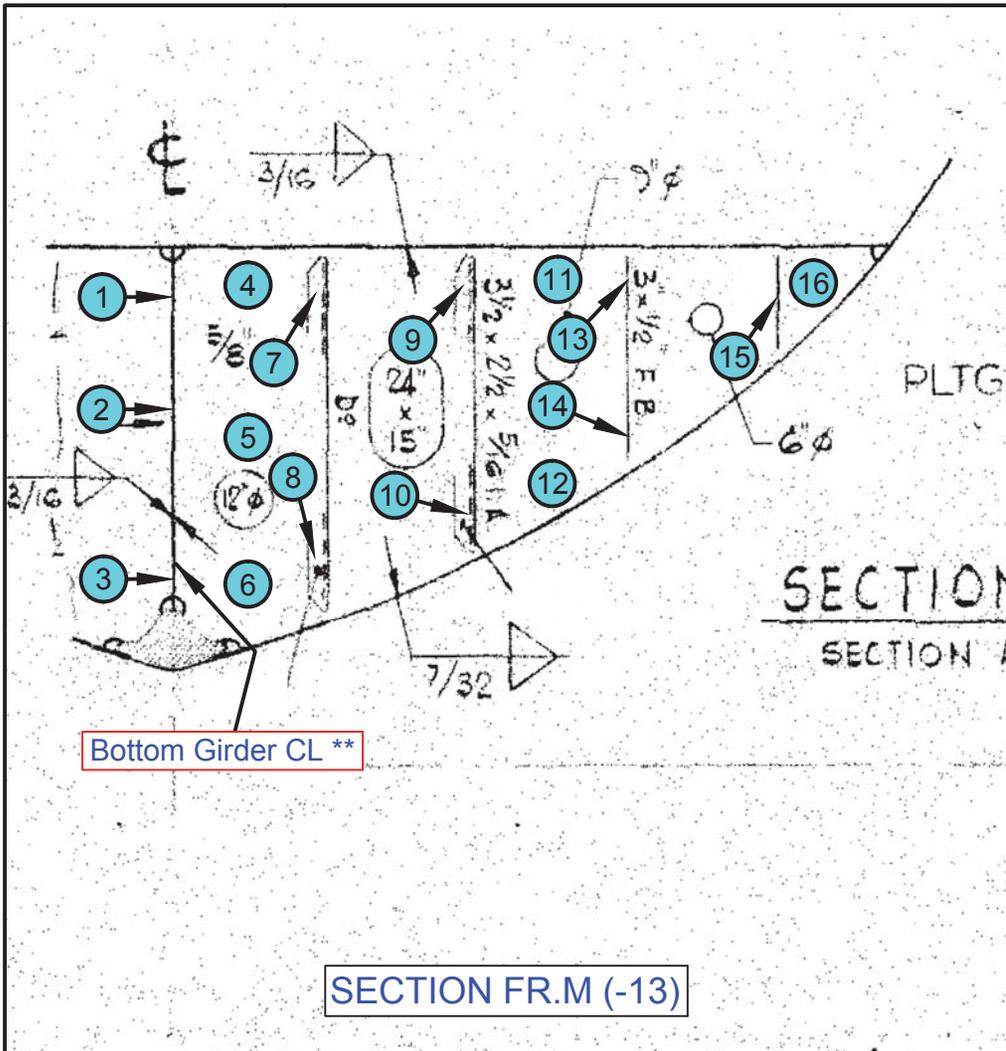
Projet / Project N.G.C.C. Amundsen		Echelle / Scale Non à l'échelle		 <b>INSPECTION</b> <b>PGL</b> <small>8629331 CANADA INC.</small>
Titre / Title Membres transversaux Coqueron arrière - fr.D & G (Transv.webs - Aft peak) - SK11-A		Feuille / Sheet # 1 de 6		
Client / Customer Travaux Publics et Services gouvernementaux Canada		Format / Size Ansi A (H)		
Préparé par / Prepared by Elvis Poulin	Date 2017/12/15	Dessin / Drawing # PGL-131-2017-A_utm report_afterpeak_Amundsen_20171215.dwg	Rév. / Rev. # 0	



Projet / Project N.G.C.C. Amundsen		Echelle / Scale Non à l'échelle		
Titre / Title Cloisons transv. & long. Puît jaumière - (Transv./Longt. BHD - Rudder Trunk) - SK11-B		Feuille / Sheet # 2 de 6		
Client / Customer Travaux Publics et Services gouvernementaux Canada		Format / Size Ansi A (H)		
Préparé par / Prepared by Elvis Poulin	Date 2017/12/19	Dessin / Drawing # PGL-131-2017-A_utm report_afterpeak_Amundsen_20171215.dwg		Rév. / Rev. # 0



Projet / Project N.G.C.C. Amundsen		Echelle / Scale Non à l'échelle		 <b>INSPECTION</b> <b>PGL</b> <small>8629331 CANADA INC.</small>
Titre / Title Membres transversaux Coqueron arrière - fr.K & L (Transv.webs - Aft peak) - SK11-C		Feuille / Sheet # 3 de 6		
Client / Customer Travaux Publics et Services gouvernementaux Canada		Format / Size Ansi A (H)		
Préparé par / Prepared by Elvis Poulin	Date 2017/12/19	Dessin / Drawing # PGL-131-2017-A_utm report_afterpeak_Amundsen_20171215.dwg	Rév. / Rev. # 0	

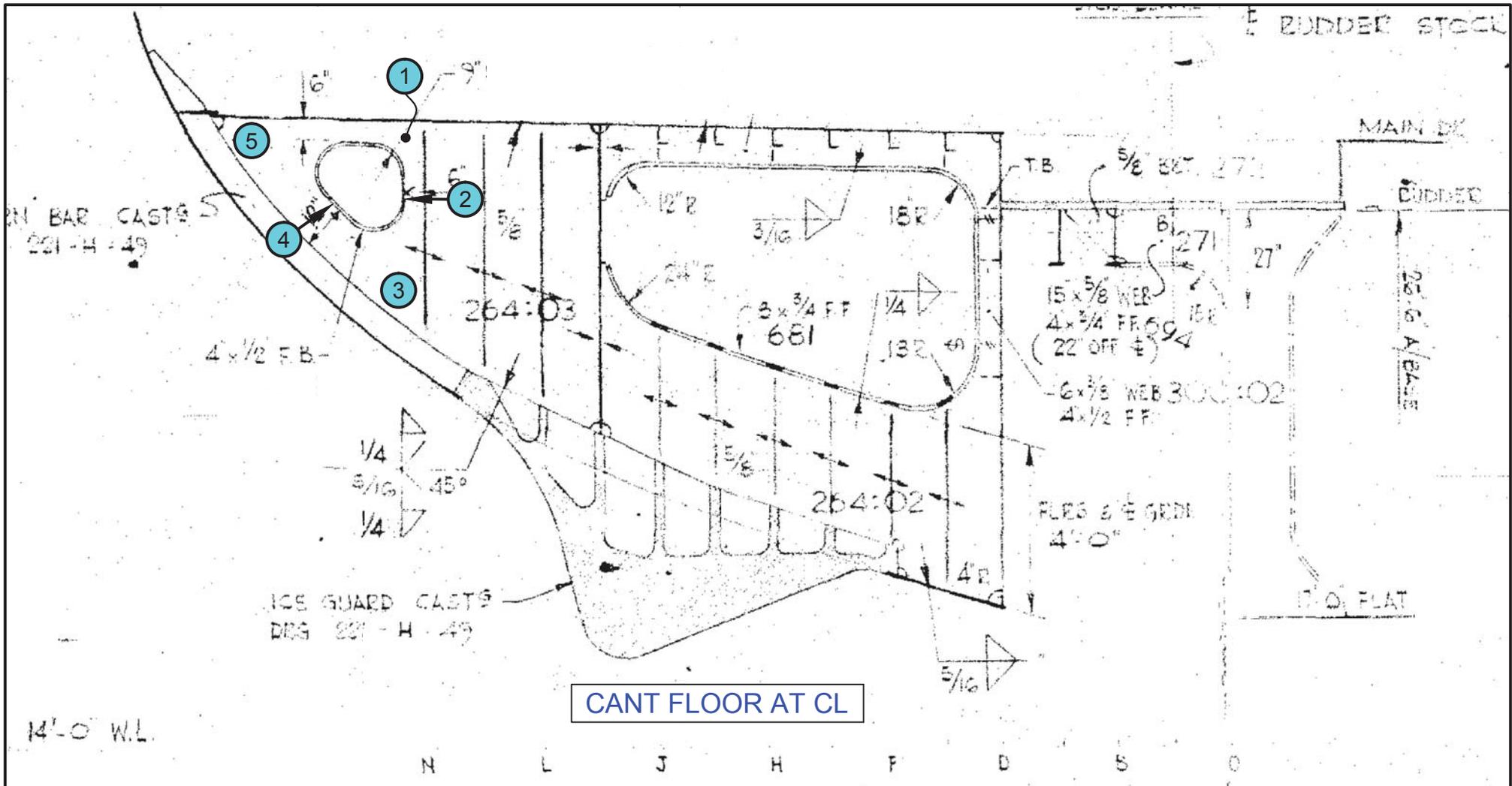


Projet / Project N.G.C.C. Amundsen	
Titre / Title Membres transversaux Coqueron arrière - fr.M & N (Transv.webs - Aft peak) - SK11-D	
Client / Customer Travaux Publics et Services gouvernementaux Canada	
Préparé par / Prepared by Elvis Poulin	Date / Drawing # 2017/12/19 PGL-131-2017-A_utm report_afterpeak_Amundsen_20171215.dwg

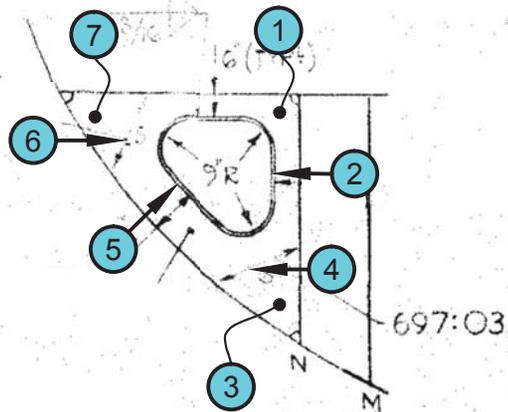
Echelle / Scale Non à l'échelle
Feuille / Sheet # 4 de 6
Format / Size Ansi A (H)

INSPECTION  
**PGL**  
8629331 CANADA INC.

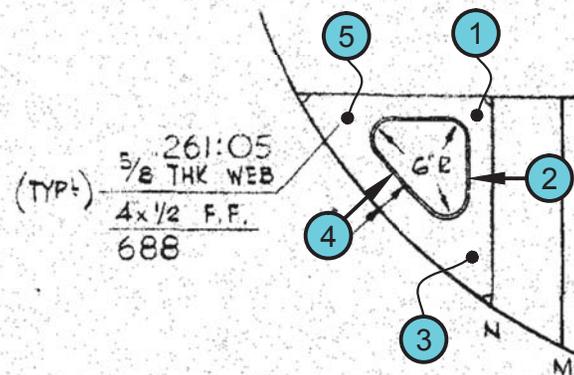
Rév. / Rev. #  
0



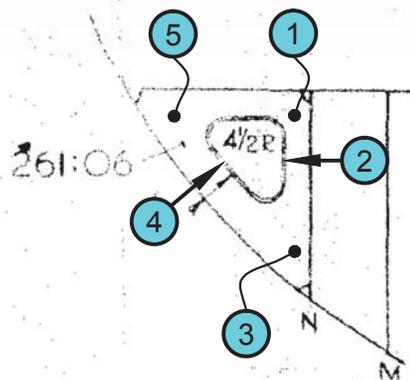
Projet / Project N.G.C.C. Amundsen		Echelle / Scale Non à l'échelle	 <p><b>INSPECTION PGL</b> 8629331 CANADA INC.</p>
Titre / Title Membrure dévoyée Coqueron arrière - Centre (Cant floor CL - Aft peak) - SK11-E		Feuille / Sheet # 5 de 6	
Client / Customer Travaux Publics et Services gouvernementaux Canada		Format / Size Ansi A (H)	
Préparé par / Prepared by Elvis Poulin	Date 2017/12/19	Dessin / Drawing # PGL-131-2017-A_utm report_afterpeak_Amundsen_20171215.dwg	Rév. / Rev. # 0



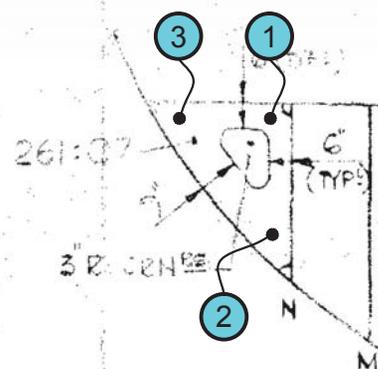
CANT FLOOR #3



CANT FLOOR #5



CANT FLOOR #6



CANT FLOOR #7

Projet / Project  
N.G.C.C. Amundsen

Titre / Title  
Membrures dévoyées Coqueron arrière - Nos.3-5-6-7 (Cant floors - Aft peak) - SK11-F

Client / Customer  
Travaux Publics et Services gouvernementaux Canada

Préparé par / Prepared by  
Elvis Poulin

Date  
2017/12/19

Dessin / Drawing #  
PGL-131-2017-A\_utm report\_afterpeak\_Amundsen\_20171215.dwg

Echelle / Scale  
Non à l'échelle

Feuille / Sheet #  
6 de 6

Format / Size  
Ansi A (H)



Rév. / Rev. #

0



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

Keel Plates and Additional Bottom Plates -  
Keel Plates

TM Forms



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Keel Plates											
Location of Structure :		Strake K											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
Keel plate (K1) - Fwd reading	SK2	25.4	30	17.8	23.6	1.8	7.09		23.6	1.8	7.09		
Keel plate (K1) - Aft reading	SK2	25.4	30	17.8	20.4	5	19.69		22.7	2.7	10.63		
Keel plate (K2) - Fwd reading	SK2	19.1	30	13.4	16.1	3	15.71		15.6	3.5	18.32		
Keel plate (K2) - Aft reading	SK2	19.1	30	13.4	16.9	2.2	11.52		17.2	1.9	9.95		
Keel plate (K3a) - Fwd reading	SK2	31.8	30	22.3	31.7	0.1	0.31		31.9	0	0		
Keel plate (K3a) - Aft reading	SK2	31.8	30	22.3	31.3	0.5	1.57		31.5	0.3	0.94		
Keel plate (K3b) - Fwd reading	SK2	19.1	30	13.4	15.8	3.3	17.28		17	2.1	10.99		
Keel plate (K3b) - Aft reading	SK2	19.1	30	13.4	16.8	2.3	12.04		17.5	1.6	8.38		
Keel plate (K4) - Fwd reading	SK2	19.1	30	13.4	17.5	1.6	8.38		18	1.1	5.76		
Keel plate (K4) - Aft reading	SK2	19.1	30	13.4	15	4.1	21.47		15.4	3.7	19.37		
Keel plate (K5) - Fwd reading	SK2	19.1	30	13.4	18.8	0.3	1.57		16.8	2.3	12.04		
Keel plate (K5) - Aft reading	SK2	19.1	30	13.4	17.5	1.6	8.38		17.2	1.9	9.95		
Keel plate (K6) - Fwd reading	SK2	19.1	30	13.4	17.5	1.6	8.38		17.3	1.8	9.42		
Keel plate (K6) - Aft reading	SK2	19.1	30	13.4	16.4	2.7	14.14		17.7	1.4	7.33		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## Keel Plates and Additional Bottom Plates - Additional Bottom Plates

### TM Forms





# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

**Sea Chests and Side Shell Plating IWO Overboard Discharges -  
Side Shell Plating IWO Overboard Discharges**

**TM Forms**



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :					Side Shell Plating IWO Overboard Discharges								
Location of Structure :					Port & Starboard side								
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
FR.33-34 PORT (V)													
Top reading	SK12	38.1	30	26.7	37.7	0.4	1.05					Port side only	
Fwd Reading	SK12	38.1	30	26.7	37.1	1	2.62					Port side only	
Bottom reading	SK12	38.1	30	26.7	37.6	0.5	1.31					Port side only	
Aft reading	SK12	38.1	30	26.7	37.3	0.8	2.1					Port side only	
FR.35-36 P/S (W/S)													
Top reading	SK12	38.1	30	26.7	38.6	0	0		38.3	0	0		
Fwd Reading	SK12	38.1	30	26.7	38.9	0	0		37.7	0.4	1.05		
Bottom reading	SK12	38.1	30	26.7	37.9	0.2	0.52		37.9	0.2	0.52		
Aft reading	SK12	38.1	30	26.7	38.4	0	0		38.2	0	0		
FR.36-37 STBD (U)													
Top reading	SK12	38.1	30	26.7					37.8	0.3	0.79	Starboard side only	
Fwd Reading	SK12	38.1	30	26.7					37.6	0.5	1.31	Starboard side only	
Bottom reading	SK12	38.1	30	26.7					37.9	0.2	0.52	Starboard side only	
Aft reading	SK12	38.1	30	26.7					37.7	0.4	1.05	Starboard side only	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :					Side Shell Plating IWO Overboard Discharges								
Location of Structure :					Port & Starboard side								
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
FR.36-37 PORT (X)													
Top reading	SK12	38.1	30	26.7	38.5	0	0					Port side only	
Fwd Reading	SK12	38.1	30	26.7	37.1	1	2.62					Port side only	
Bottom reading	SK12	38.1	30	26.7	38	0.1	0.26					Port side only	
Aft reading	SK12	38.1	30	26.7	38.4	0	0					Port side only	
FR.36-37 P/S (Y/T)													
Top reading	SK12	38.1	30	26.7	38.1	0	0		38.1	0	0		
Fwd Reading	SK12	38.1	30	26.7	37.8	0.3	0.79		38	0.1	0.26		
Bottom reading	SK12	38.1	30	26.7	38.6	0	0		37.9	0.2	0.52		
Aft reading	SK12	38.1	30	26.7	38.1	0	0		38.1	0	0		
FR.42-43 P/S (Z/R)													
Top reading	SK12	38.1	30	26.7	37.5	0.6	1.57		38	0.1	0.26		
Fwd Reading	SK12	38.1	30	26.7	38	0.1	0.26		37.9	0.2	0.52		
Bottom reading	SK12	38.1	30	26.7	38.2	0	0		37.9	0.2	0.52		
Aft reading	SK12	38.1	30	26.7	38	0.1	0.26		37.3	0.8	2.1		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :					Side Shell Plating IWO Overboard Discharges								
Location of Structure :					Port & Starboard side								
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
FR.54-55 P/S (AA/Q)													
Top reading	SK12	38.1	30	26.7	38	0.1	0.26		38.1	0	0		
Fwd Reading	SK12	38.1	30	26.7	38	0.1	0.26		38.2	0	0		
Bottom reading	SK12	38.1	30	26.7	37.6	0.5	1.31		37.9	0.2	0.52		
Aft reading	SK12	38.1	30	26.7	37.9	0.2	0.52		38	0.1	0.26		
FR.59-60 STBD (P)													
Top reading	SK12	38.1	30	26.7					37.1	1	2.62	Starboard side only	
Fwd Reading	SK12	50.8	30	35.6					50.8	0	0	Starboard side only	
Bottom reading	SK12	50.8	30	35.6					51.3	0	0	Starboard side only	
Aft reading	SK12	50.8	30	35.6					50.4	0.4	0.79	Starboard side only	
FR.59-60 PORT (AB)													
Top reading	SK12	38.1	30	26.7	37.6	0.5	1.31					Port side only	
Fwd Reading	SK12	41.1	30	28.8	41.6	0	0					Port side only	
Bottom reading	SK12	41.1	30	28.8	41.9	0	0					Port side only	
Aft reading	SK12	41.1	30	28.8	42.6	0	0					Port side only	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :				Side Shell Plating IWO Overboard Discharges									
Location of Structure :				Port & Starboard side									
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
FR.91-92 P/S (AC/M)													
Top reading	SK12	50.8	30	35.6	50.3	0.5	0.98		50.3	0.5	0.98		
Fwd Reading	SK12	50.8	30	35.6	49.9	0.9	1.77		49.8	1	1.97		
Bottom reading	SK12	50.8	30	35.6	50.7	0.1	0.2		50.7	0.1	0.2		
Aft reading	SK12	50.8	30	35.6	49.7	1.1	2.17		50.6	0.2	0.39		
FR.91-92 STBD (N)													
Top reading	SK12	50.8	30	35.6					50	0.8	1.57	Starboard side only	
Fwd Reading	SK12	50.8	30	35.6					50.4	0.4	0.79	Starboard side only	
Bottom reading	SK12	50.8	30	35.6					50.5	0.3	0.59	Starboard side only	
Aft reading	SK12	50.8	30	35.6					50.3	0.5	0.98	Starboard side only	
FR.91-92 STBD (O)													
Top reading	SK12	41.1	30	28.8					40	1.1	2.68	Starboard side only	
Fwd Reading	SK12	41.1	30	28.8					40.1	1	2.43	Starboard side only	
Bottom reading	SK12	41.1	30	28.8					39.8	1.3	3.16	Starboard side only	
Aft reading	SK12	41.1	30	28.8					40.3	0.8	1.95	Starboard side only	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Side Shell Plating IWO Overboard Discharges											
Location of Structure :		Port & Starboard side											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
FR.92-93 P/S (AD/L)													
Top reading	SK12	42.9	30	30	43	0	0		42.6	0.3	0.7		
Fwd Reading	SK12	42.9	30	30	43.7	0	0		43.1	0	0		
Bottom reading (AD)	SK12	50.8	30	35.6	50.3	0.5	0.98						Port side only
Bottom reading (L)	SK12	42.9	30	30					42.8	0.1	0.23		Starboard side only
Aft reading	SK12	42.9	30	30	42.6	0.3	0.7		42.9	0	0		
FR.93-94 PORT (AE)													
Top reading	SK12	42.9	30	30	42.8	0.1	0.23						Port side only
Fwd Reading	SK12	42.9	30	30	42.8	0.1	0.23						Port side only
Bottom reading	SK12	50.8	30	35.6	50	0.8	1.57						Port side only
Aft reading	SK12	42.9	30	30	42.5	0.4	0.93						Port side only
FR.93-94 STBD (K)													
Top reading	SK12	50.8	30	35.6					50	0.8	1.57		Starboard side only
Fwd Reading	SK12	50.8	30	35.6					49.9	0.9	1.77		Starboard side only
Bottom reading	SK12	50.8	30	35.6					50.4	0.4	0.79		Starboard side only
Aft reading	SK12	50.8	30	35.6					49.6	1.2	2.36		Starboard side only

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :				Side Shell Plating IWO Overboard Discharges									
Location of Structure :				Port & Starboard side									
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
FR.94-95 P/S (AF/I)													
Top reading	SK12	50.8	30	35.6	50.1	0.7	1.38		51.2	0	0		
Fwd Reading	SK12	50.8	30	35.6	50.5	0.3	0.59		50.7	0.1	0.2		
Bottom reading	SK12	50.8	30	35.6	50.7	0.1	0.2		50.6	0.2	0.39		
Aft reading	SK12	50.8	30	35.6	50.2	0.6	1.18		49.9	0.9	1.77		
FR.94-95 STBD (J)													
Top reading	SK12	50.8	30	35.6					51.4	0	0	Starboard side only	
Fwd Reading	SK12	50.8	30	35.6					51.3	0	0	Starboard side only	
Bottom reading	SK12	50.8	30	35.6					50.2	0.6	1.18	Starboard side only	
Aft reading	SK12	50.8	30	35.6					50.2	0.6	1.18	Starboard side only	
FR.95-96 P/S (AG/H)													
Top reading	SK12	42.9	30	30	43.7	0	0		41.8	1.1	2.56		
Fwd Reading	SK12	50.8	30	35.6	49.6	1.2	2.36		50.5	0.3	0.59		
Bottom reading	SK12	50.8	30	35.6	49.7	1.1	2.17		50.5	0.3	0.59		
Aft reading	SK12	50.8	30	35.6	50.3	0.5	0.98		49.8	1	1.97		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :				Side Shell Plating IWO Overboard Discharges									
Location of Structure :				Port & Starboard side									
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading			Comments	
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution			Thickness As Renewed (mm)
						(mm)	(%)			(mm)	(%)		
FR.95-96 PORT (AL)													
Top reading	SK12	50.8	30	35.6	50.4	0.4	0.79						Port side only
Fwd Reading	SK12	50.8	30	35.6	49.7	1.1	2.17						Port side only
Bottom reading	SK12	50.8	30	35.6	49.5	1.3	2.56						Port side only
Aft reading	SK12	50.8	30	35.6	49.7	1.1	2.17						Port side only
FR.95-96 PORT (AM)													
Top reading	SK12	41.1	30	28.8	41.3	0	0						Port side only
Fwd Reading	SK12	41.1	30	28.8	41.1	0	0						Port side only
Bottom reading	SK12	41.1	30	28.8	40.8	0.3	0.73						Port side only
Aft reading	SK12	41.1	30	28.8	40.6	0.5	1.22						Port side only
FR.96-97 P/S (AH/F)													
Top reading	SK12	42.9	30	30	42	0.9	2.1		42.1	0.8	1.86		
Fwd Reading	SK12	42.9	30	30	42.5	0.4	0.93		42.6	0.3	0.7		
Bottom reading (AH)	SK12	42.9	30	30	43	0	0						Port side only
Bottom reading (F)	SK12	50.8	30	35.6					51.1	0	0		Starboard side only
Aft reading	SK12	42.9	30	30	42.3	0.6	1.4		40.9	2	4.66		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Side Shell Plating IWO Overboard Discharges											
Location of Structure :		Port & Starboard side											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
FR.96-97 STBD (G)													
Top reading	SK12	50.8	30	35.6					50.8	0	0		Starboard side only
Fwd Reading	SK12	50.8	30	35.6					50.7	0.1	0.2		Starboard side only
Bottom reading	SK12	50.8	30	35.6					49.8	1	1.97		Starboard side only
Aft reading	SK12	50.8	30	35.6					50.6	0.2	0.39		Starboard side only
FR.96-97 PORT (AN)													
Top reading	SK12	41.1	30	28.8	41.1	0	0						Port side only
Fwd Reading	SK12	41.1	30	28.8	40.7	0.4	0.97						Port side only
Bottom reading	SK12	41.1	30	28.8	40.8	0.3	0.73						Port side only
Aft reading	SK12	41.1	30	28.8	41.2	0	0						Port side only
FR.97-98 STBD (E)													
Top reading	SK12	42.9	30	30					42.4	0.5	1.17		Starboard side only
Fwd Reading	SK12	42.9	30	30					42.5	0.4	0.93		Starboard side only
Bottom reading	SK12	50.8	30	35.6					49.7	1.1	2.17		Starboard side only
Aft reading	SK12	42.9	30	30					42.3	0.6	1.4		Starboard side only

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :					Side Shell Plating IWO Overboard Discharges								
Location of Structure :					Port & Starboard side								
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
FR.97-98 PORT (AO)													
Top reading	SK12	41.1	30	28.8	40.5	0.6	1.46					Port side only	
Fwd Reading	SK12	41.1	30	28.8	40.9	0.2	0.49					Port side only	
Bottom reading	SK12	41.1	30	28.8	40.8	0.3	0.73					Port side only	
Aft reading	SK12	41.1	30	28.8	41.2	0	0					Port side only	
FR.98-99 PORT (AI)													
Top reading	SK12	42.9	30	30	42.2	0.7	1.63					Port side only	
Fwd Reading	SK12	42.9	30	30	42.1	0.8	1.86					Port side only	
Bottom reading	SK12	42.9	30	30	42.4	0.5	1.17					Port side only	
Aft reading	SK12	42.9	30	30	41.6	1.3	3.03					Port side only	
FR.98-99 STBD (C)													
Top reading	SK12	50.8	30	35.6				49.7	1.1	2.17		Starboard side only	
Fwd Reading	SK12	50.8	30	35.6				48.1	2.7	5.31		Starboard side only	
Bottom reading	SK12	50.8	30	35.6				49.3	1.5	2.95		Starboard side only	
Aft reading	SK12	50.8	30	35.6				49.2	1.6	3.15		Starboard side only	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :					Side Shell Plating IWO Overboard Discharges								
Location of Structure :					Port & Starboard side								
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
FR.98-99 PORT (AJ)													
Top reading	SK12	42.9	30	30	42.4	0.5	1.17					Port side only	
Fwd Reading	SK12	42.9	30	30	42.7	0.2	0.47					Port side only	
Bottom reading	SK12	42.9	30	30	41.5	1.4	3.26					Port side only	
Aft reading	SK12	42.9	30	30	42.3	0.6	1.4					Port side only	
FR.98-99 STBD (D)													
Top reading	SK12	50.8	30	35.6				50.7	0.1	0.2		Starboard side only	
Fwd Reading	SK12	50.8	30	35.6				49.7	1.1	2.17		Starboard side only	
Bottom reading	SK12	50.8	30	35.6				50.4	0.4	0.79		Starboard side only	
Aft reading	SK12	50.8	30	35.6				50.1	0.7	1.38		Starboard side only	
FR.98-99 PORT (AK)													
Top reading	SK12	41.1	30	28.8	41.1	0	0					Port side only	
Fwd Reading	SK12	31.8	30	22.3	33	0	0					Port side only	
Bottom reading	SK12	41.1	30	28.8	40.5	0.6	1.46					Port side only	
Aft reading	SK12	41.1	30	28.8	39.7	1.4	3.41					Port side only	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier





# Thickness Measurement Report

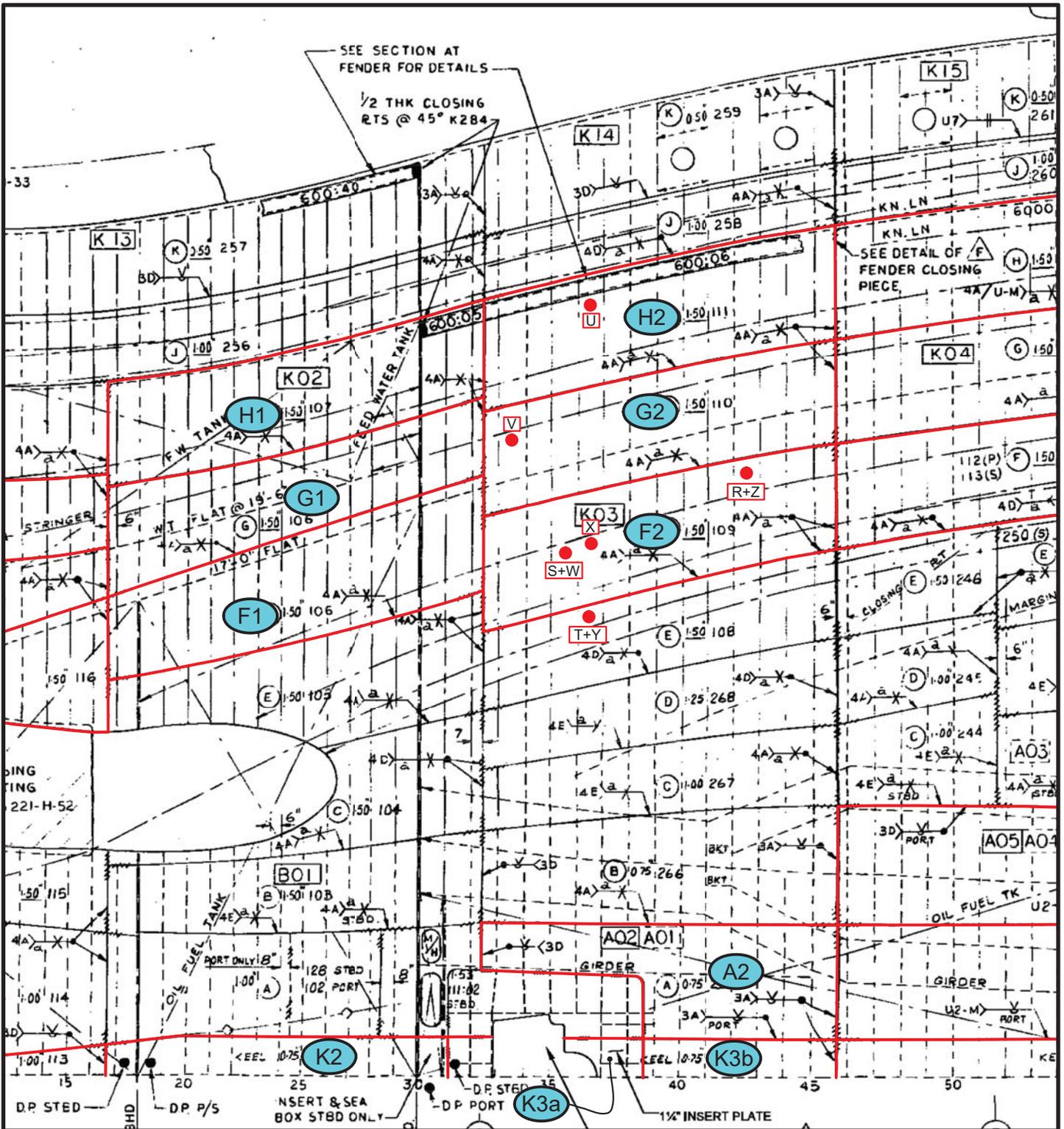
Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

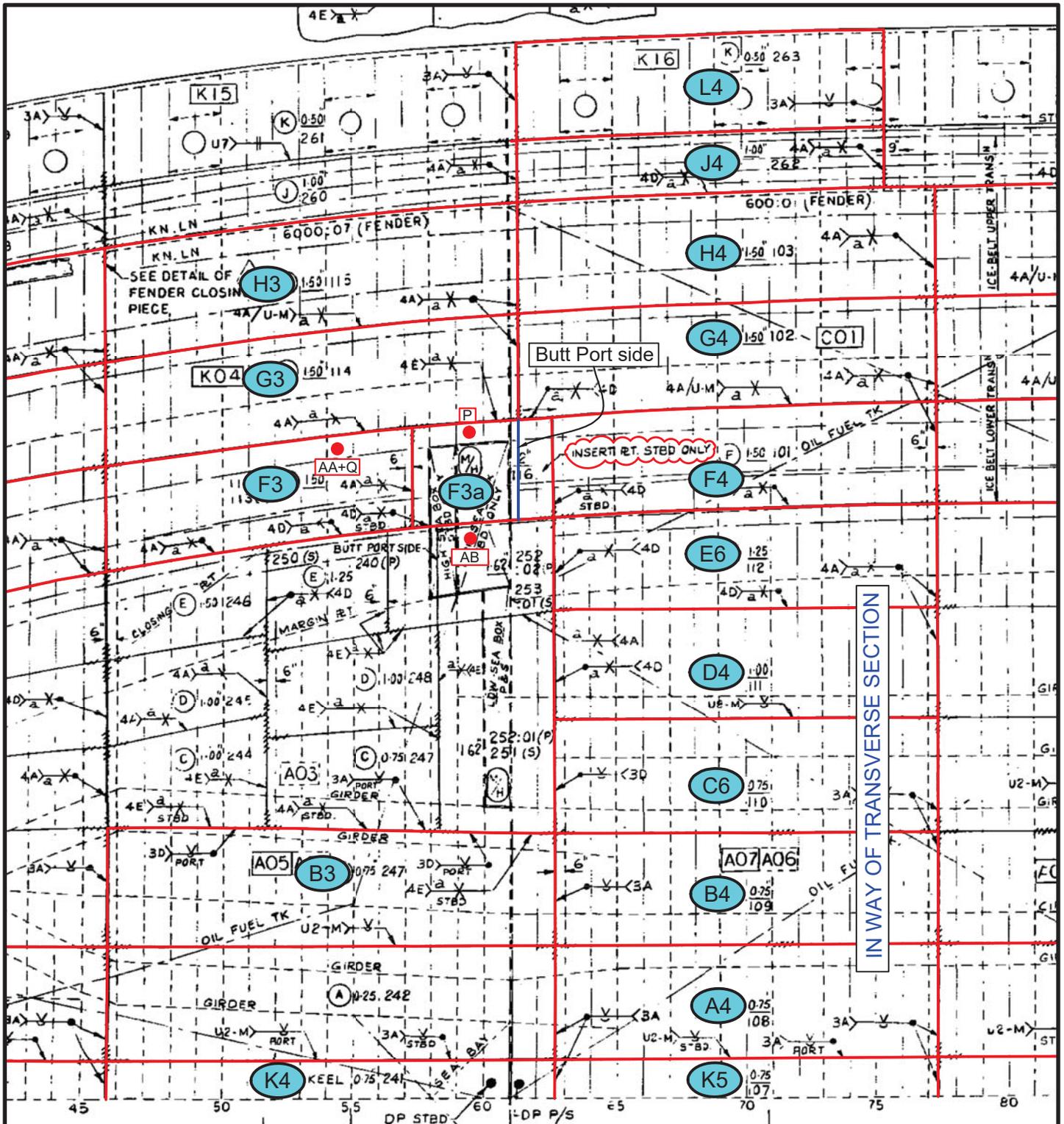
**Sea Chests and Side Shell Plating IWO Overboard Discharges -  
Side Shell Plating IWO Overboard Discharges**

**TM Sketches**



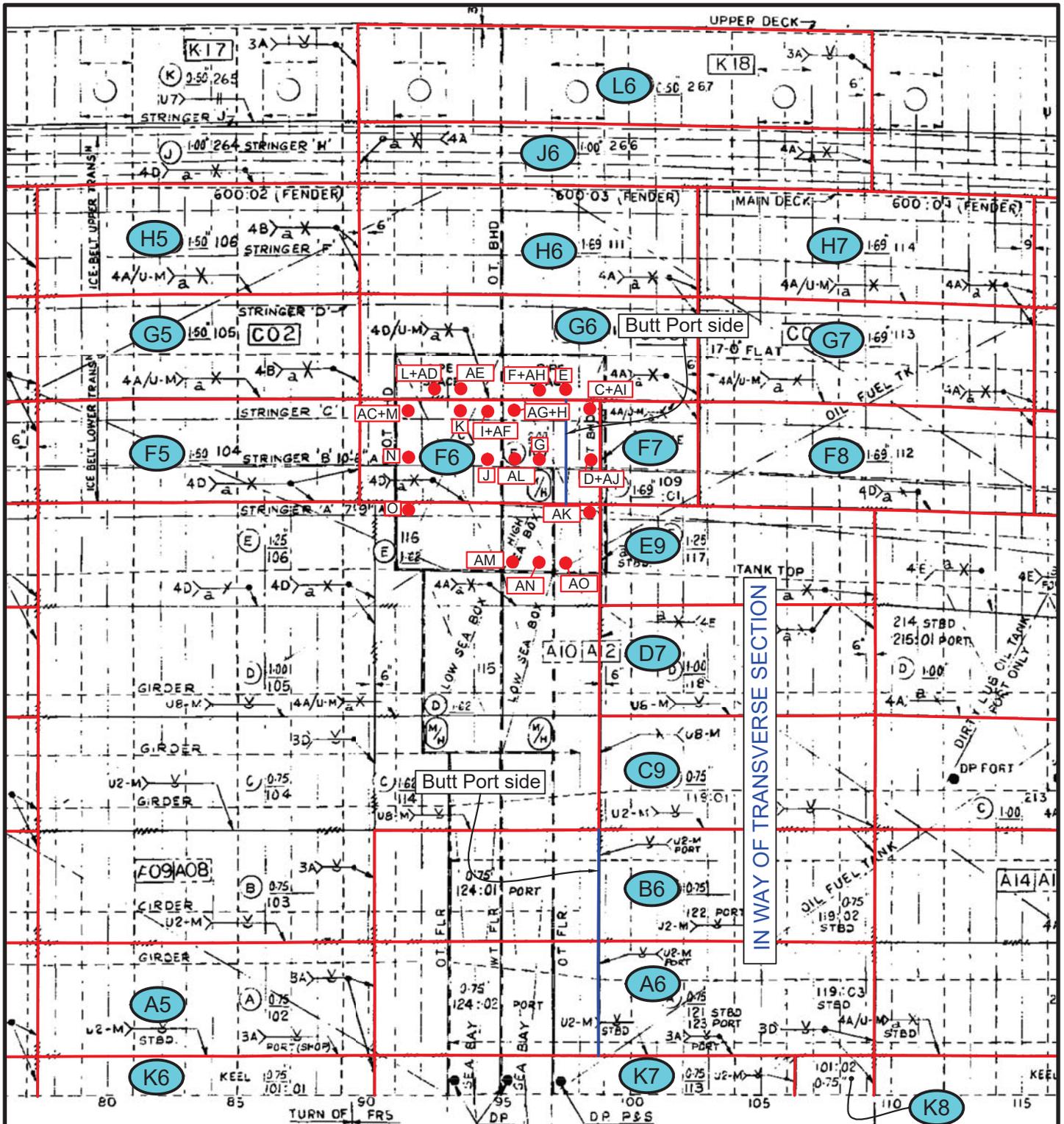
Projet / Project N.G.C.C. Amundsen			
Titre / Title Décharges à la mer (Overboard discharges) - SK12			
Client / Customer Travaux Publics et Services gouvernementaux Canada			
Préparé par / Prepared by Annie Truchon	Date 2017/12/19	Echelle / Scale Non à l'échelle	Feuille / Sheet # 1 de 4
Dessin / Drawing # PGL-131-2017-A_utm report_shell_Amundsen_20171213.dwg			Format / Size Ansi A (V)
			Rév. / Rev. # 0





Projet / Project N.G.C.C. Amundsen			
Titre / Title Décharges à la mer (Overboard discharges) - SK12			
Client / Customer Travaux Publics et Services gouvernementaux Canada			
Préparé par / Prepared by Annie Truchon	Date 2017/12/19	Echelle / Scale Non à l'échelle	Feuille / Sheet # 2 de 4
Dessin / Drawing # PGL-131-2017-A_utm report_shell_Amundsen_20171213.dwg			Format / Size Ansi A (V)
			Rév. / Rev. # 0

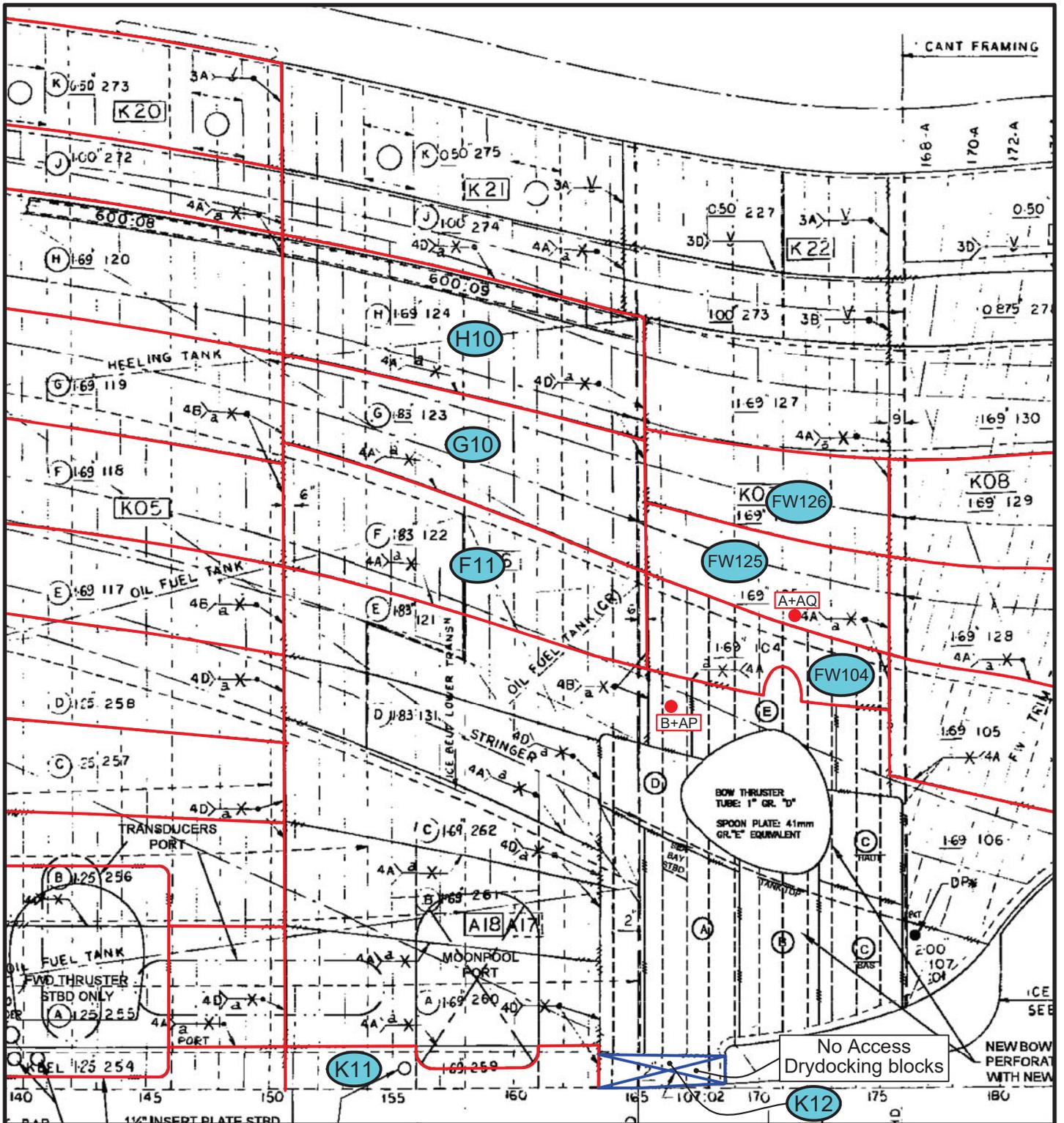




Projet / Project  
 N.G.C.C. Amundsen  
 Titre / Title  
 Décharges à la mer (Overboard discharges) - SK12  
 Client / Customer  
 Travaux Publics et Services gouvernementaux Canada  
 Préparé par / Prepared by  
 Annie Truchon  
 Date  
 2017/12/19  
 Echelle / Scale  
 Non à l'échelle  
 Feuille / Sheet #  
 3 de 4  
 Dessin / Drawing #  
 PGL-131-2017-A\_utm report\_shell\_Amundsen\_20171213.dwg



Format / Size  
 Ansi A (V)  
 Rév. / Rev. #  
 0



Projet / Project N.G.C.C. Amundsen		 9629331 CANADA INC.		
Titre / Title Décharges à la mer (Overboard discharges) - SK12				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Annie Truchon	Date 2017/12/19	Echelle / Scale Non à l'échelle	Feuille / Sheet # 4 de 4	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_shell_Amundsen_20171213.dwg			Rév. / Rev. # 0	



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

Sea Chests and Side Shell Plating IWO Overboard Discharges -  
Sea Chests

TM Forms



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :			Sea Chests										
Location of Structure :			Low sea box - fr.30-31 - Starboard										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BULKHEAD FR.30													
BHD plating - reading no.1	SK19	12.7	30	8.9					11.9	0.8	6.3		Starboard side only
BHD plating - reading no.2	SK19	12.7	30	8.9					12.4	0.3	2.36		Starboard side only
BULKHEAD FR.31													
BHD plating - reading no.1	SK19	19.1	30	13.4					17.7	1.4	7.33		Starboard side only
BHD plating - reading no.2	SK19	19.1	30	13.4					18.6	0.5	2.62		Starboard side only
GIRDERS CL & NO.1													
Plate - reading no.1	SK19	15.1	30	10.6					12.3	2.8	18.54		Starboard side only
Plate - reading no.2	SK19	15.1	30	10.6					13.6	1.5	9.93		Starboard side only
Plate - reading no.3	SK19	25.4	30	17.8					23.2	2.2	8.66		Starboard side only
Plate - reading no.4	SK19	25.4	30	17.8					25.5	0	0		Starboard side only
TOP PLATE													
Plate - reading no.1	SK19	12.7	30	8.9					9.9	2.8	22.05		Starboard side only
Plate - reading no.2	SK19	12.7	30	8.9					10.9	1.8	14.17		Starboard side only

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :			Sea Chests										
Location of Structure :			High sea box fr.58-59 and 59-61 - Starboard										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BULKHEAD FR.58													
BHD plating - reading no.1	SK20	15.9	30	11.1					15.8	0.1	0.63		Starboard side only
BHD plating - reading no.2	SK20	15.9	30	11.1					15.5	0.4	2.52		Starboard side only
BULKHEAD FR.61													
BHD plating - reading no.1	SK20	15.9	30	11.1					14.7	1.2	7.55		Starboard side only
BHD plating - reading no.2	SK20	12.7	30	8.9					12.9	0	0		Starboard side only
BHD plating - reading no.3	SK20	15.9	30	11.1					15	0.9	5.66		Starboard side only
BHD plating - reading no.4	SK20	12.7	30	8.9					10.6	2.1	16.54		Starboard side only
LONGT. BHD													
BHD plating - reading no.1	SK20	12.7	30	8.9					12.6	0.1	0.79		Starboard side only
BHD plating - reading no.2	SK20	12.7	30	8.9					10.9	1.8	14.17		Starboard side only
TOP PLATE													
Plate - reading no.1	SK20	12.7	30	8.9					9.6	3.1	24.41		Starboard side only
Plate - reading no.2	SK20	12.7	30	8.9					12.5	0.2	1.57		Starboard side only
Plate - reading no.3	SK20	12.7	30	8.9					12.3	0.4	3.15		Starboard side only
Plate - reading no.4	SK20	12.7	30	8.9					11.2	1.5	11.81		Starboard side only
Plate - reading no.5	SK20	12.7	30	8.9					11.2	1.5	11.81		Starboard side only
Plate - reading no.5	SK20	12.7	30	8.9					11.5	1.2	9.45		Starboard side only

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :			Sea Chests										
Location of Structure :			Low sea box - fr.60-61 - Port & Starboard										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BULKHEAD FR.60													
BHD plating - reading no.1	SK21	12.7	30	8.9	11.8	0.9	7.09		11.1	1.6	12.6		
BHD plating - reading no.2	SK21	12.7	30	8.9	11.3	1.4	11.02		11.8	0.9	7.09		
BHD plating - reading no.3	SK21	12.7	30	8.9	10.8	1.9	14.96		12.5	0.2	1.57		
BHD plating - reading no.4	SK21	12.7	30	8.9	11.8	0.9	7.09		11.6	1.1	8.66		
BULKHEAD FR.61													
BHD plating - reading no.1	SK21	15.9	30	11.1	14.8	1.1	6.92		14.6	1.3	8.18		
BHD plating - reading no.2	SK21	15.9	30	11.1	15.2	0.7	4.4		14.9	1	6.29		
BHD plating - reading no.3	SK21	15.9	30	11.1	15.7	0.2	1.26		15.8	0.1	0.63		
BHD plating - reading no.4	SK21	12.7	30	8.9	12.3	0.4	3.15		12	0.7	5.51		
GIRDER NO.5													
Plate - reading no.1	SK21	25.4	30	17.8	25.6	0	0		25.5	0	0		
Plate - reading no.2	SK21	25.4	30	17.8	24.8	0.6	2.36		24.9	0.5	1.97		
TOP PLATE													
Plate - reading no.1	SK21	12.7	30	8.9	12.4	0.3	2.36		11.9	0.8	6.3		
Plate - reading no.2	SK21	12.7	30	8.9	11.4	1.3	10.24		12.3	0.4	3.15		

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Sea Chests											
Location of Structure :		Low sea box - fr.92-95 - Port & Starboard											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(mm)
BULKHEAD FR.92													
BHD plating - reading no.1	SK22	12.7	30	8.9	11.6	1.1	8.66		11.6	1.1	8.66		
BHD plating - reading no.2	SK22	12.7	30	8.9	12.1	0.6	4.72		12.4	0.3	2.36		
GIRDER NO.6													
Plate - reading no.1	SK22	15.9	30	11.1	15.5	0.4	2.52		15.6	0.3	1.89		
Plate - reading no.2	SK22	15.9	30	11.1	15.9	0	0		15.8	0.1	0.63		
TOP PLATE													
Plate - reading no.1	SK22	12.7	30	8.9	11.8	0.9	7.09						Port side only
Plate - reading no.2	SK22	12.7	30	8.9	12.4	0.3	2.36						Port side only

- Excessive Diminution
- Substantial Corrosion
- Renewed As Built
- Renewed other than As Built
- Missing Reading
- Abnormally High Reading
- Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Sea Chests											
Location of Structure :		High sea box - fr.92-95 - Port											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BULKHEAD FR.92													
BHD plating - reading no.1	SK23	15.9	30	11.1	15.6	0.3	1.89					Port side only	
BHD plating - reading no.2	SK23	15.9	30	11.1	15.6	0.3	1.89					Port side only	
BHD plating - reading no.2	SK23	15.9	30	11.1	15.7	0.2	1.26					Port side only	
BULKHEAD FR.95													
BHD plating - reading no.1	SK23	15.9	30	11.1	14.7	1.2	7.55					Port side only	
BHD plating - reading no.2	SK23	12.7	30	8.9	12.1	0.6	4.72					Port side only	
TOP PLATE													
Plate - reading no.1	SK23	12.7	30	8.9	10.6	2.1	16.54					Port side only	
Plate - reading no.2	SK23	12.7	30	8.9	11.8	0.9	7.09					Port side only	
Plate - reading no.3	SK23	12.7	30	8.9	8.4	4.3	33.86					Port side only	
Plate - reading no.4	SK23	12.7	30	8.9	11	1.7	13.39					Port side only	
LONGT. BHD													
BHD plating - reading no.1	SK23	12.7	30	8.9	12.8	0	0					Port side only	
BHD plating - reading no.1	SK23	12.7	30	8.9	12.3	0.4	3.15					Port side only	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :			Sea Chests										
Location of Structure :			High Sea box - fr.92-95 - Port -Additional Reading										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
TOP PLATE													
Plate - reading no.1	AR-SK1	12.7	30	8.9	11.5	1.2	9.45						Port side only
Plate - reading no.2	AR-SK1	12.7	30	8.9	11.8	0.9	7.09						Port side only
Plate - reading no.3	AR-SK1	12.7	30	8.9	11.5	1.2	9.45						Port side only
Plate - reading no.4	AR-SK1	12.7	30	8.9	11.9	0.8	6.3						Port side only
Plate - reading no.5	AR-SK1	12.7	30	8.9	10.6	2.1	16.54						Port side only
Plate - reading no.6	AR-SK1	12.7	30	8.9	11.7	1	7.87						Port side only
Plate - reading no.7	AR-SK1	12.7	30	8.9	11.6	1.1	8.66						Port side only
Plate - reading no.8	AR-SK1	12.7	30	8.9	11.8	0.9	7.09						Port side only
Plate - reading no.9	AR-SK1	12.7	30	8.9	9.7	3	23.62						Port side only
Plate - reading no.10	AR-SK1	12.7	30	8.9	11.2	1.5	11.81						Port side only
Plate - reading no.11	AR-SK1	12.7	30	8.9	10.9	1.8	14.17						Port side only
Plate - reading no.12	AR-SK1	12.7	30	8.9	10.7	2	15.75						Port side only
Plate - reading no.13	AR-SK1	12.7	30	8.9	11.9	0.8	6.3						Port side only
Plate - reading no.14	AR-SK1	12.7	30	8.9	8.4	4.3	33.86						Port side only
Plate - reading no.15	AR-SK1	12.7	30	8.9	11.1	1.6	12.6						Port side only
Plate - reading no.16	AR-SK1	12.7	30	8.9	11.1	1.6	12.6						Port side only
Plate - reading no.17	AR-SK1	12.7	30	8.9	11	1.7	13.39						Port side only

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Sea Chests											
Location of Structure :		Low sea box - fr.95-97 - Port & Starboard											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BULKHEAD FR.97													
BHD plating - reading no.1	SK24	12.7	30	8.9	12.3	0.4	3.15		11	1.7	13.39		
BHD plating - reading no.2	SK24	12.7	30	8.9	12.8	0	0		12.1	0.6	4.72		
GIRDER NO.6													
Plate - reading no.1	SK24	15.9	30	11.1	15.5	0.4	2.52		15	0.9	5.66		
Plate - reading no.2	SK24	15.9	30	11.1	15.8	0.1	0.63		15.5	0.4	2.52		
TOP PLATE													
Plate - reading no.1	SK24	12.7	30	8.9	12.7	0	0					Port side only	
Plate - reading no.2	SK24	12.7	30	8.9	12	0.7	5.51					Port side only	
Plate - reading no.3	SK24	12.7	30	8.9					11.9	0.8	6.3	Starboard side only	
Plate - reading no.4	SK24	12.7	30	8.9					12	0.7	5.51	Starboard side only	
Plate - reading no.5	SK24	12.7	30	8.9	12.9	0	0					Port side only	

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :			Sea Chests										
Location of Structure :			High sea box - fr.95-97 - Starboard										
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BULKHEAD FR.95													
BHD plating - reading no.1	SK25	15.9	30	11.1					14.9	1	6.29		Starboard side only
BHD plating - reading no.2	SK25	12.7	30	8.9					12.9	0	0		Starboard side only
BULKHEAD FR.97													
BHD plating - reading no.1	SK25	15.9	30	11.1					12.3	3.6	22.64		Starboard side only
BHD plating - reading no.2	SK25	15.9	30	11.1					12.6	3.3	20.75		Starboard side only
BHD plating - reading no.3	SK25	15.9	30	11.1					12.6	3.3	20.75		Starboard side only
BHD plating - reading no.4	SK25	15.9	30	11.1					15.3	0.6	3.77		Starboard side only
TOP PLATE													
Plate - reading no.1	SK25	12.7	30	8.9					11.4	1.3	10.24		Starboard side only
Plate - reading no.2	SK25	12.7	30	8.9					9.5	3.2	25.2		Starboard side only
Plate - reading no.3	SK25	12.7	30	8.9					9.7	3	23.62		Starboard side only
Plate - reading no.4	SK25	12.7	30	8.9					10.4	2.3	18.11		Starboard side only
LONGT. BHD													
Plate - reading no.1	SK25	12.7	30	8.9					12.5	0.2	1.57		Starboard side only

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Sea Chests											
Location of Structure :		Evaporator sea inlet box - fr.120-123 - Port											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BULKHEAD FR.120													
BHD plating - reading no.1	SK26	12.7	30	8.9	12	0.7	5.51						Port side only
BHD plating - reading no.2	SK26	12.7	30	8.9	12.9	0	0						Port side only
BULKHEAD FR.123													
BHD plating - reading no.1	SK26	12.7	30	8.9	11.7	1	7.87						Port side only
BHD plating - reading no.2	SK26	12.7	30	8.9	12	0.7	5.51						Port side only
TOP PLATE													
Plate - reading no.1	SK26	12.7	30	8.9	12.3	0.4	3.15						Port side only
GIRDER NO.7													
Plate - reading no.1	SK26	12.7	30	8.9	12.1	0.6	4.72						Port side only
Plate - reading no.2	SK26	12.7	30	8.9	12.6	0.1	0.79						Port side only

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

Ship's Name : Amundsen

LR/IMO Number : 7510846

TM Report No : MTL1700708

## TM6 - Miscellaneous Structural Members

Space / Compartment Description :		Sea Chests											
Location of Structure :		Sea inlet box Thruster compt. - fr.166-167 - Stbd											
Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading			Starboard Reading			Comments		
					Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution		Thickness As Renewed (mm)	
						(mm)	(%)			(mm)			(%)
BULKHEAD FR.166													
BHD plating - reading no.1	SK27	15.9	30	11.1					16.2	0	0		Starboard side only
BHD plating - reading no.2	SK27	15.9	30	11.1					16.2	0	0		Starboard side only
BULKHEAD FR.167													
BHD plating - reading no.1	SK27	15.9	30	11.1					16.2	0	0		Starboard side only
BHD plating - reading no.2	SK27	15.9	30	11.1					16.2	0	0		Starboard side only
TOP PLATE													
Plate - reading no.1	SK27	15.9	30	11.1					16.3	0	0		Starboard side only
Plate - reading no.2	SK27	15.9	30	11.1					16.2	0	0		Starboard side only
LONGT. BHD (plate inboard)													
Plate - upper reading no.3	SK27	15.9	30	11.1					12.6	3.3	20.75		Starboard side only
Plate - lower reading no.3	SK27	15.9	30	11.1					12.7	3.2	20.13		Starboard side only

● Excessive Diminution  
 ● Substantial Corrosion  
 ● Renewed As Built  
 ● Renewed other than As Built  
 ● Missing Reading  
 ● Abnormally High Reading  
 ● Deck Buckling Failure

Name of TM Operator : Elvis Poulin

Name of LR Attending Surveyor : Guy Mercier



# Thickness Measurement Report

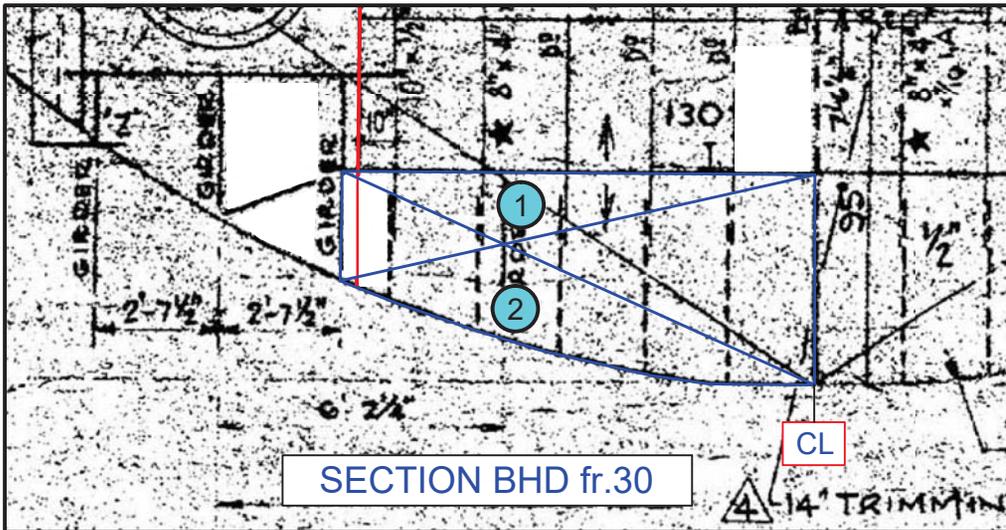
Ship's Name : Amundsen

LR/IMO Number : 7510846

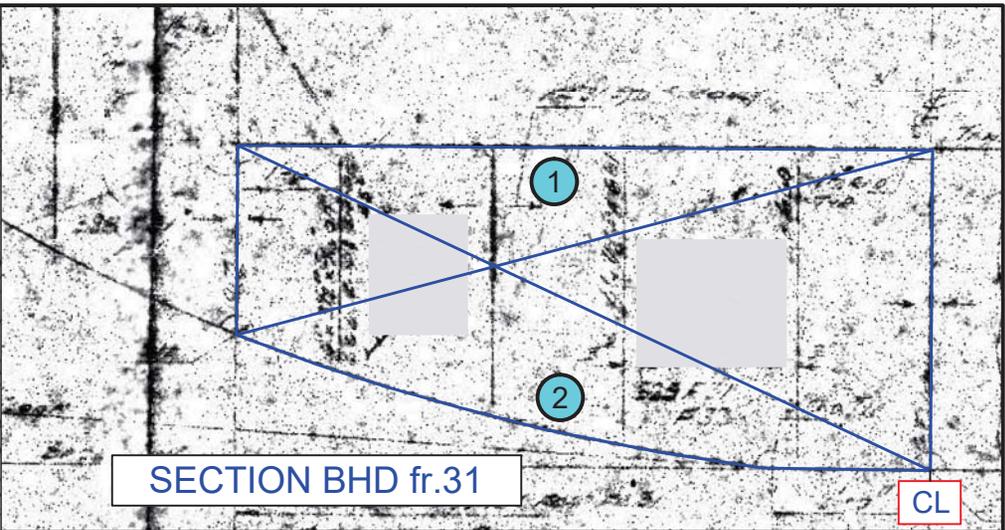
TM Report No : MTL1700708

Sea Chests and Side Shell Plating IWO Overboard Discharges -  
Sea Chests

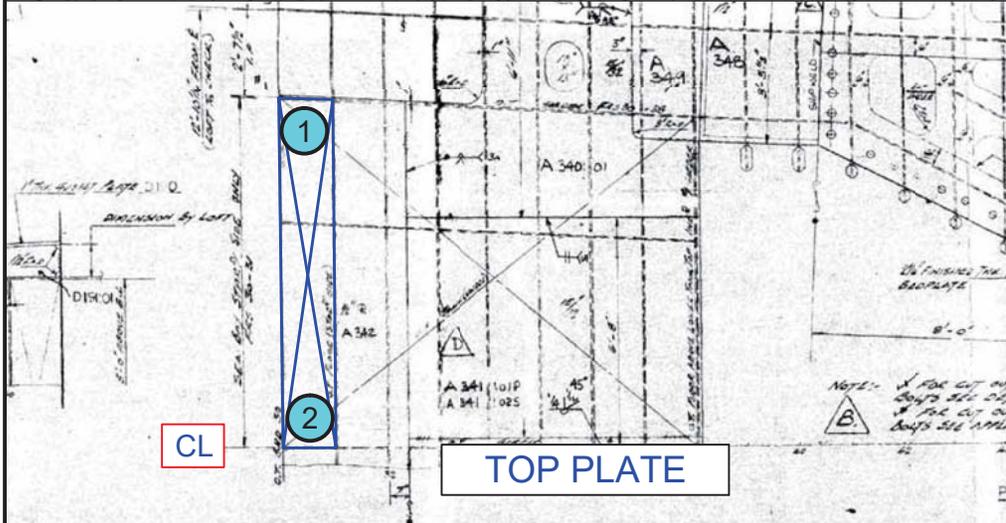
TM Sketches



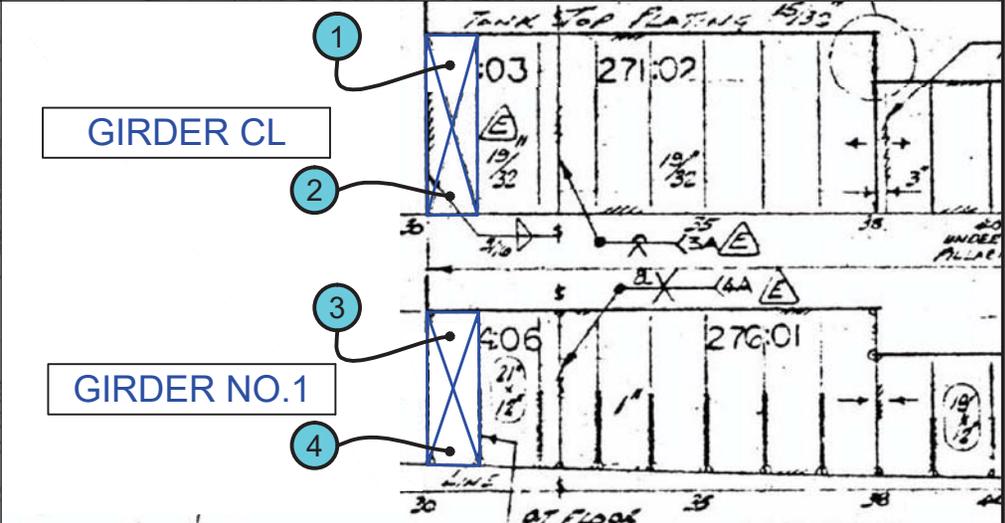
SECTION BHD fr.30



SECTION BHD fr.31



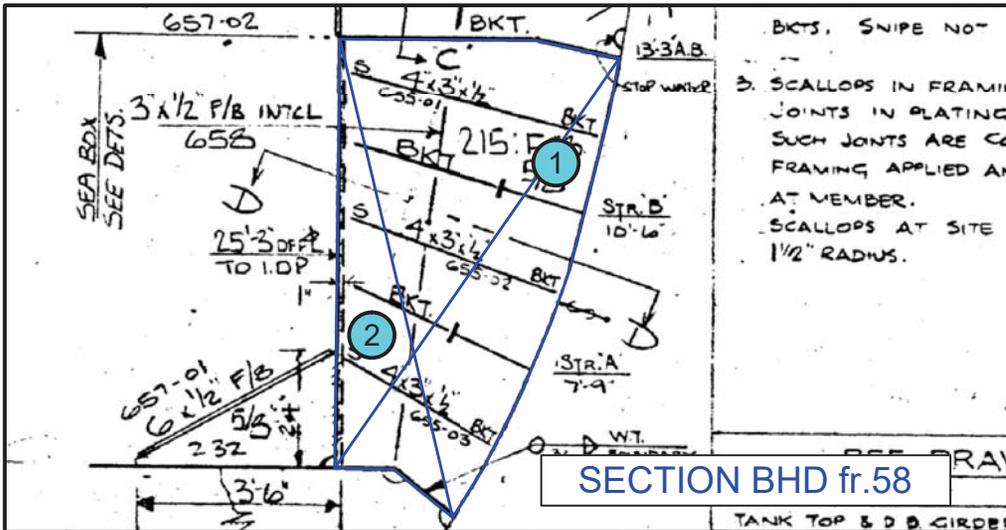
TOP PLATE



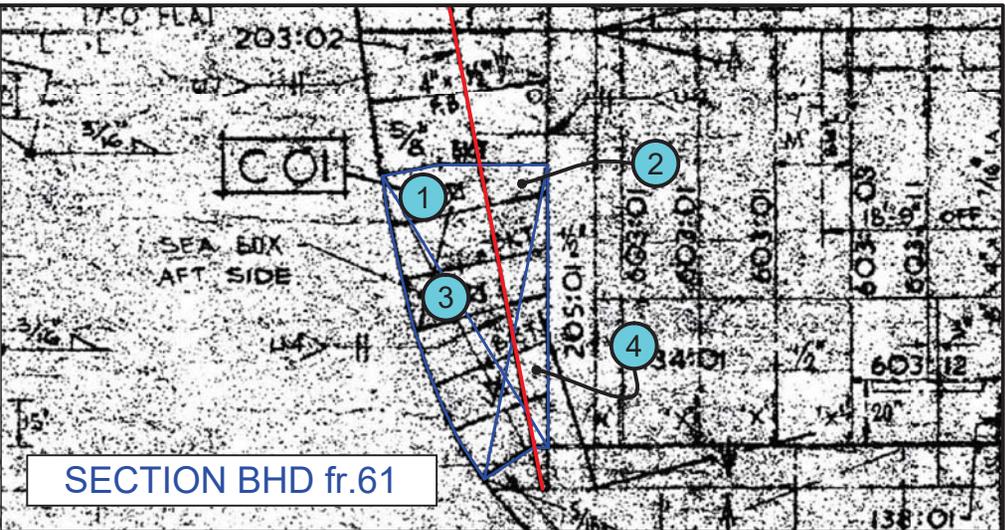
GIRDER CL

GIRDER NO.1

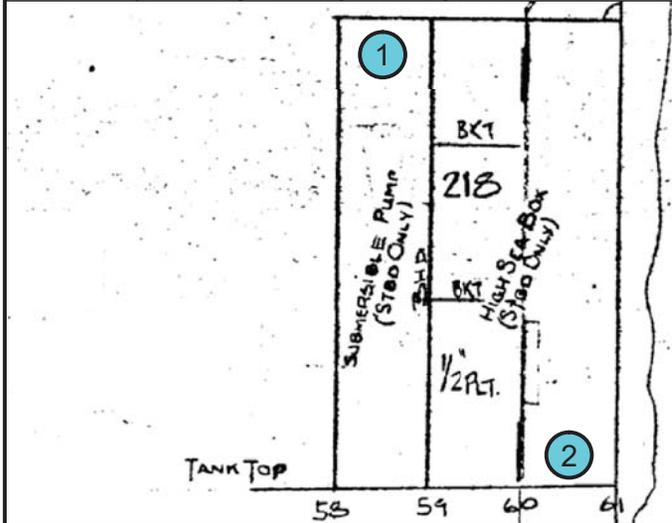
Projet / Project N.G.C.C. Amundsen		Echelle / Scale Non à l'échelle		 <b>INSPECTION PGL</b> <small>8629331 CANADA INC.</small>
Titre / Title Low sea box sprinkler pump - fr.30-31 - Starboard - SK19		Feuille / Sheet # 1 de 1		
Client / Customer Travaux publics et Services gouvernementaux Canada		Format / Size Ansi A (H)		
Préparé par / Prepared by Annie Truchon	Date 2018/01/05	Dessin / Drawing # PGL-131-2017-A_utm report_seachests_Amundsen_20180105.dwg		Rév. / Rev. # 0



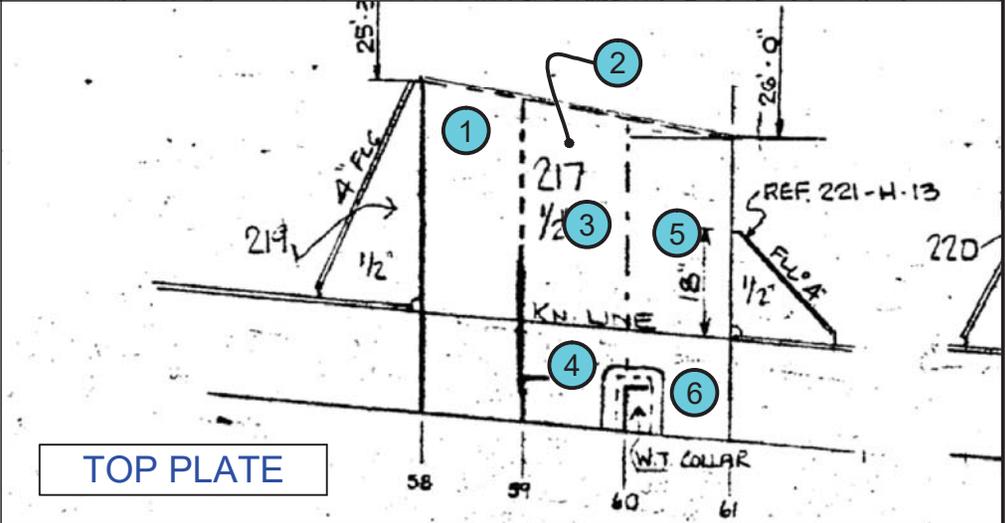
SECTION BHD fr.58



SECTION BHD fr.61



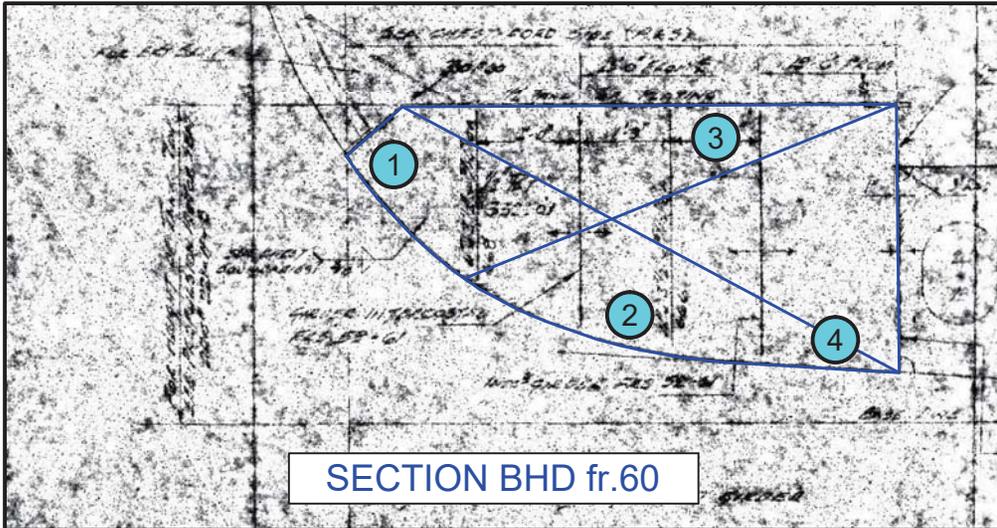
LONGT. BHD



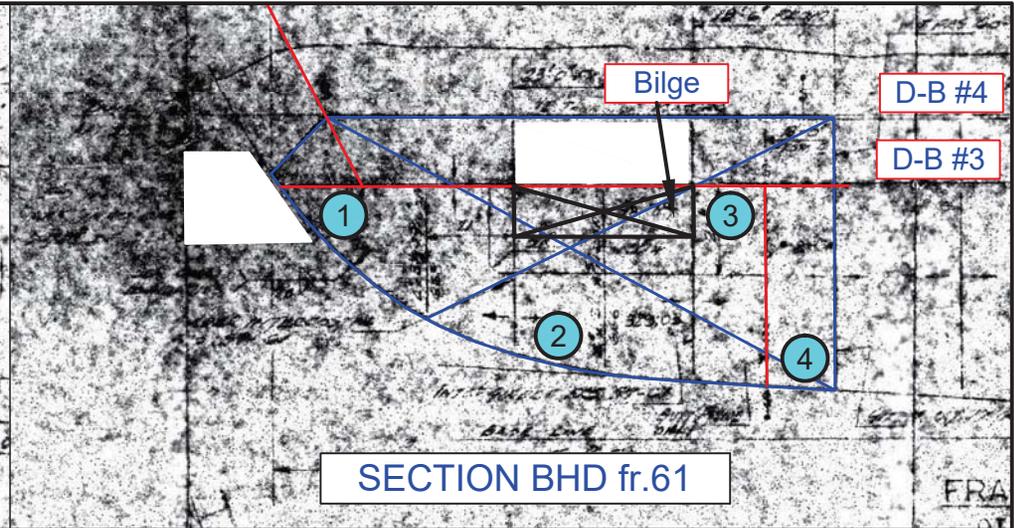
TOP PLATE

Projet / Project N.G.C.C. Amundsen		Echelle / Scale Non à l'échelle	
Titre / Title High sea box fr.58-59 & High sea box fr.59-61 - Starboard - SK20		Feuille / Sheet # 1 de 1	
Client / Customer Travaux publics et Services gouvernementaux Canada		Format / Size Ansi A (H)	
Préparé par / Prepared by Annie Truchon	Date 2018/01/05	Dessin / Drawing # PGL-131-2017-A_utm report_seachests_Amundsen_20180105.dwg	Rév. / Rev. # 0

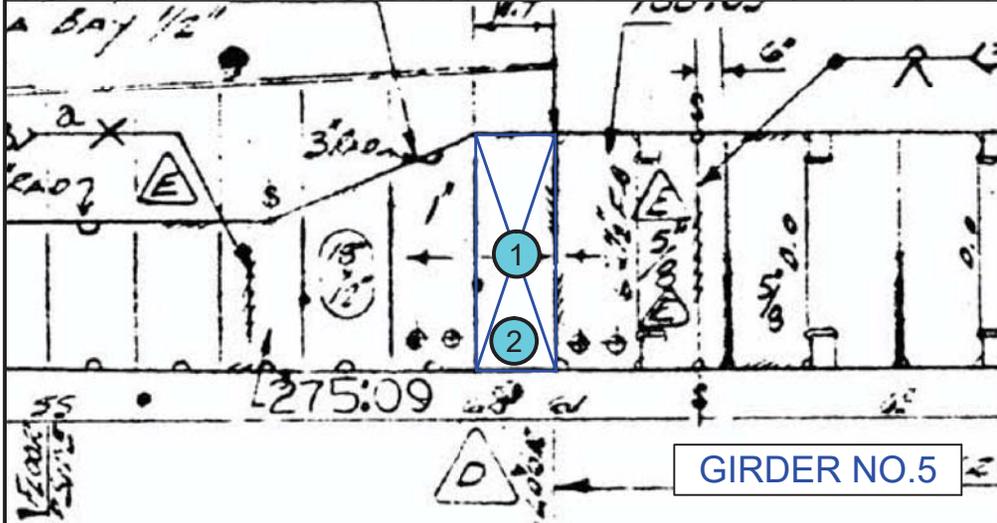




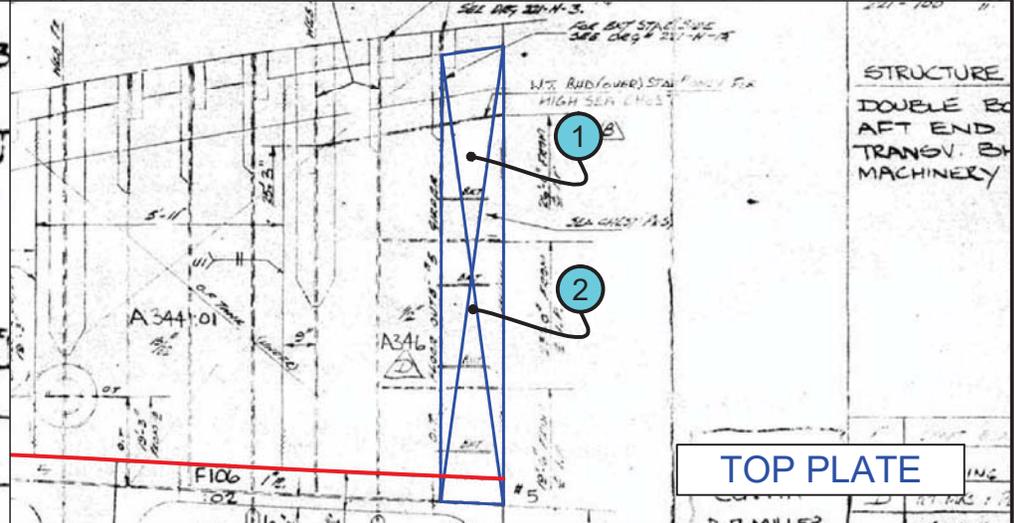
SECTION BHD fr.60



SECTION BHD fr.61



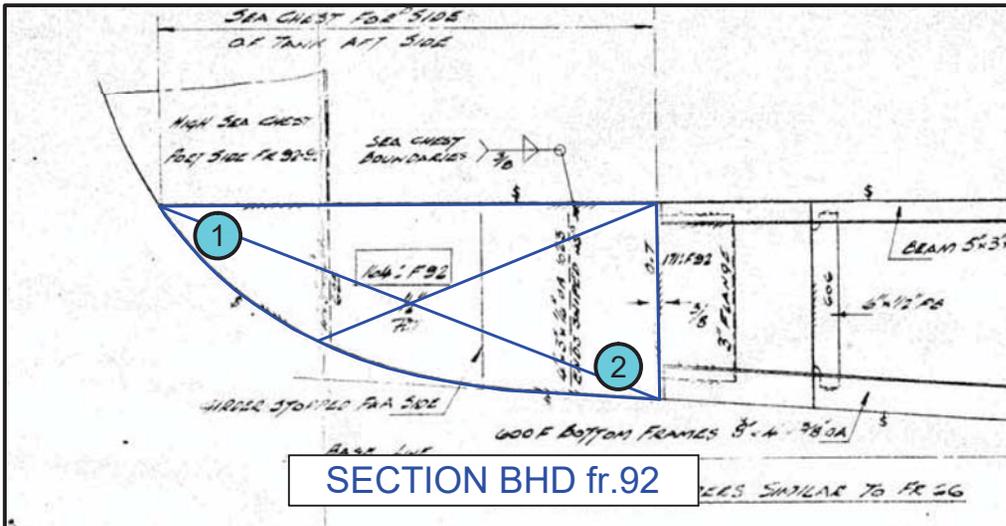
GIRDER NO.5



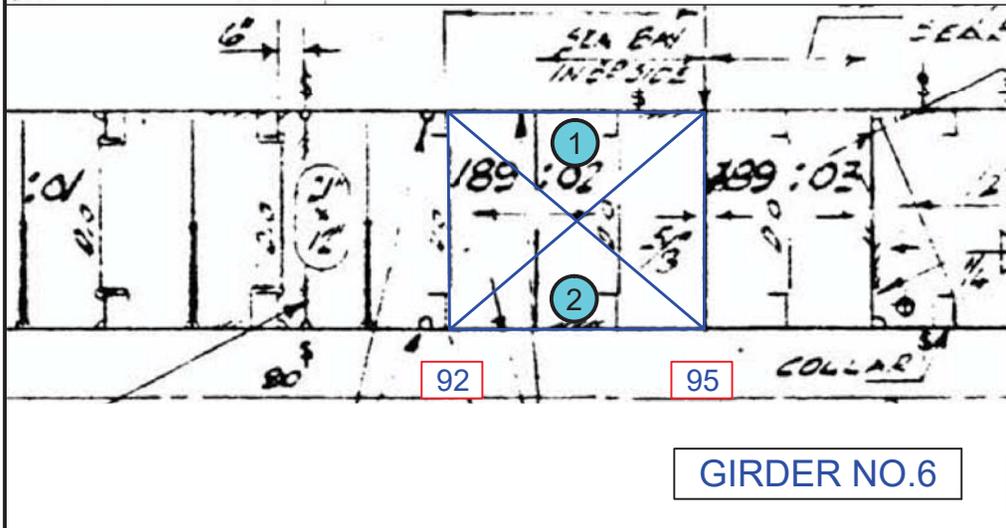
TOP PLATE

Projet / Project N.G.C.C. Amundsen		Echelle / Scale Non à l'échelle	
Titre / Title Low sea box Prop. Motor room - fr.60-61 - Port & Starboard - SK21		Feuille / Sheet # 1 de 1	
Client / Customer Travaux publics et Services gouvernementaux Canada		Format / Size Ansi A (H)	
Préparé par / Prepared by Annie Truchon	Date 2018/01/05	Dessin / Drawing # PGL-131-2017-A_utm report_seachests_Amundsen_20180105.dwg	Rév. / Rev. # 0

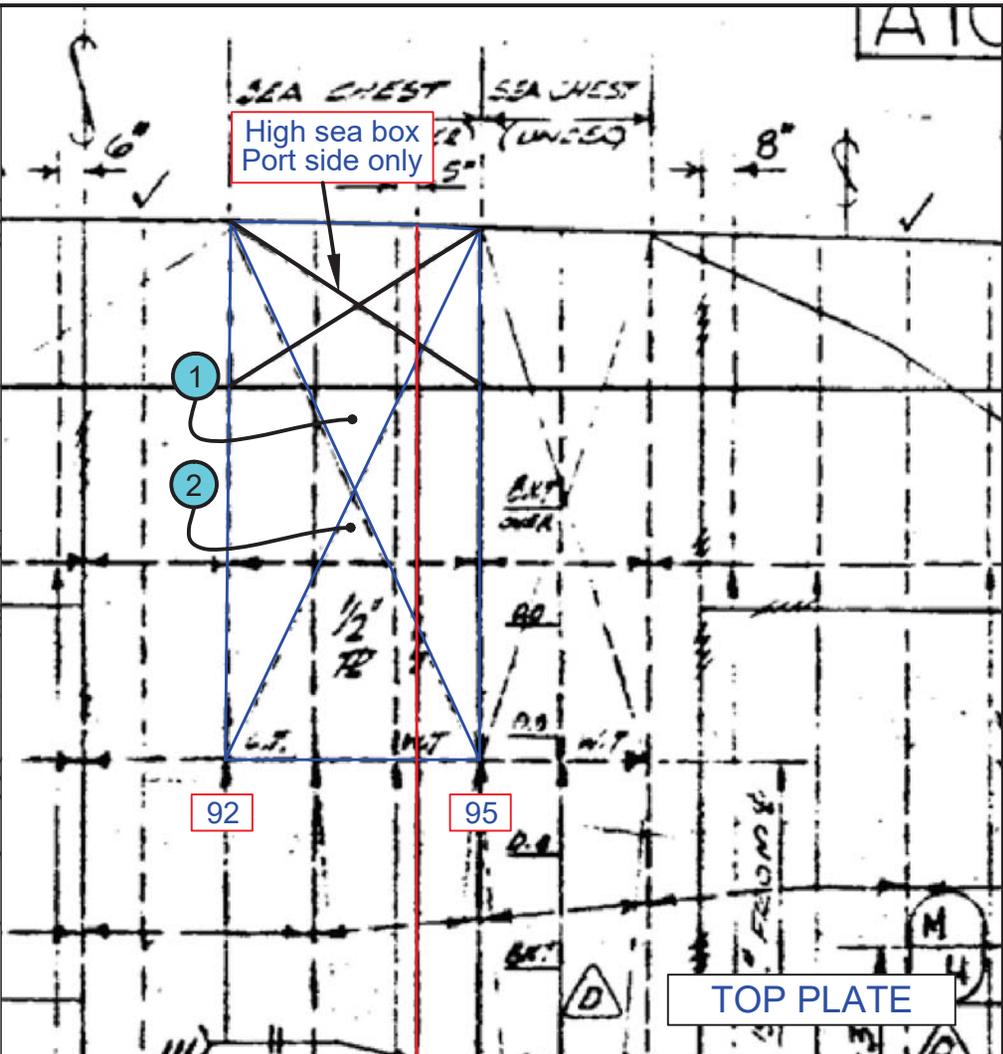




SECTION BHD fr.92



GIRDER NO.6

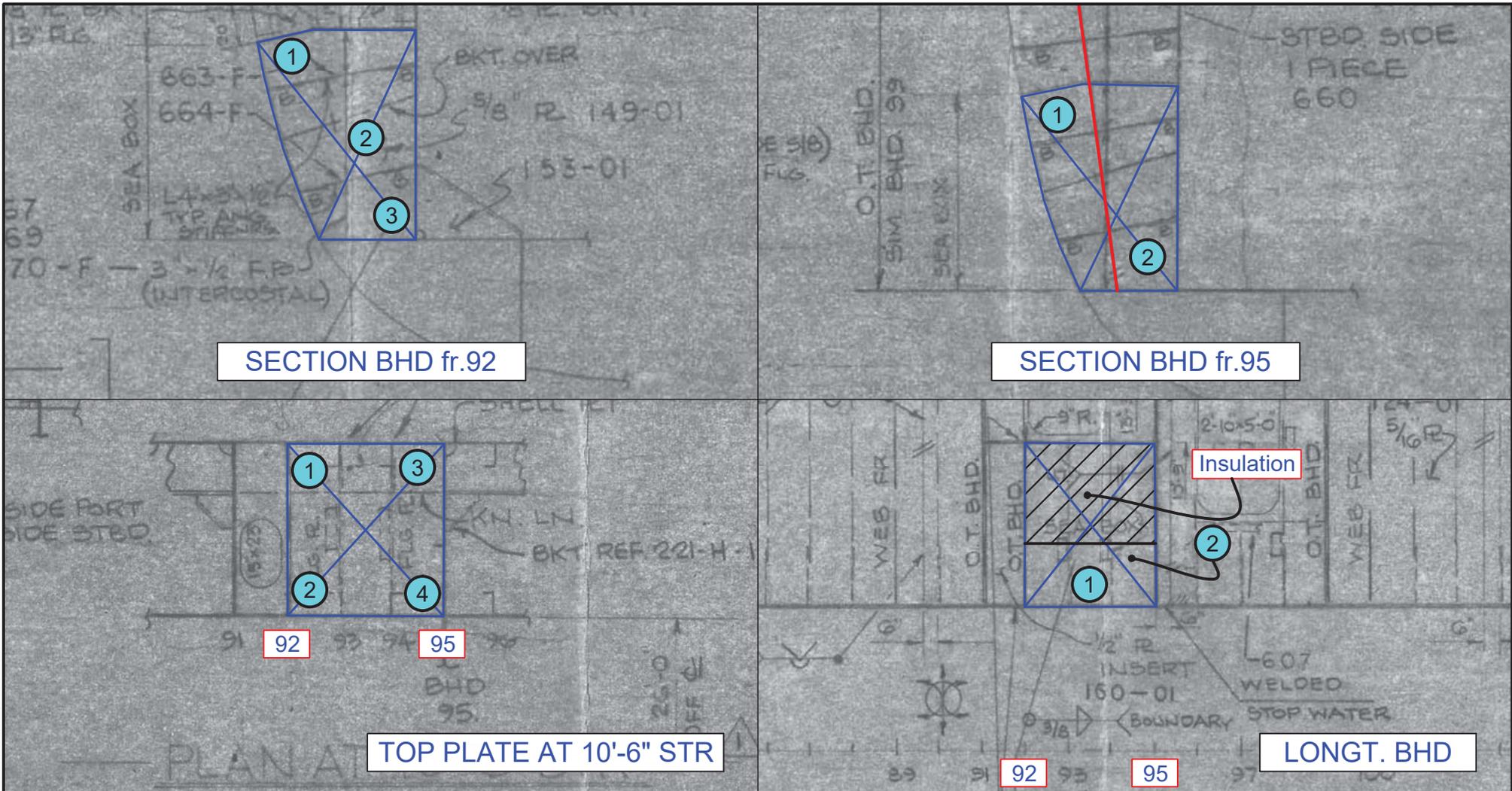


TOP PLATE

Projet / Project		Echelle / Scale
N.G.C.C. Amundsen		Non à l'échelle
Titre / Title		Feuille / Sheet #
Low sea box Aft Engine room - fr.92-95 - Port & Starboard - SK22		1 de 1
Client / Customer		Format / Size
Travaux publics et Services gouvernementaux Canada		Ansi A (H)

Projet / Project		Echelle / Scale
N.G.C.C. Amundsen		Non à l'échelle
Titre / Title		Feuille / Sheet #
Low sea box Aft Engine room - fr.92-95 - Port & Starboard - SK22		1 de 1
Client / Customer		Format / Size
Travaux publics et Services gouvernementaux Canada		Ansi A (H)

Préparé par / Prepared by	Date	Dessin / Drawing #	Rév. / Rev. #
Annie Truchon	2018/01/05	PGL-131-2017-A_utm report_seachests_Amundsen_20180105.dwg	0

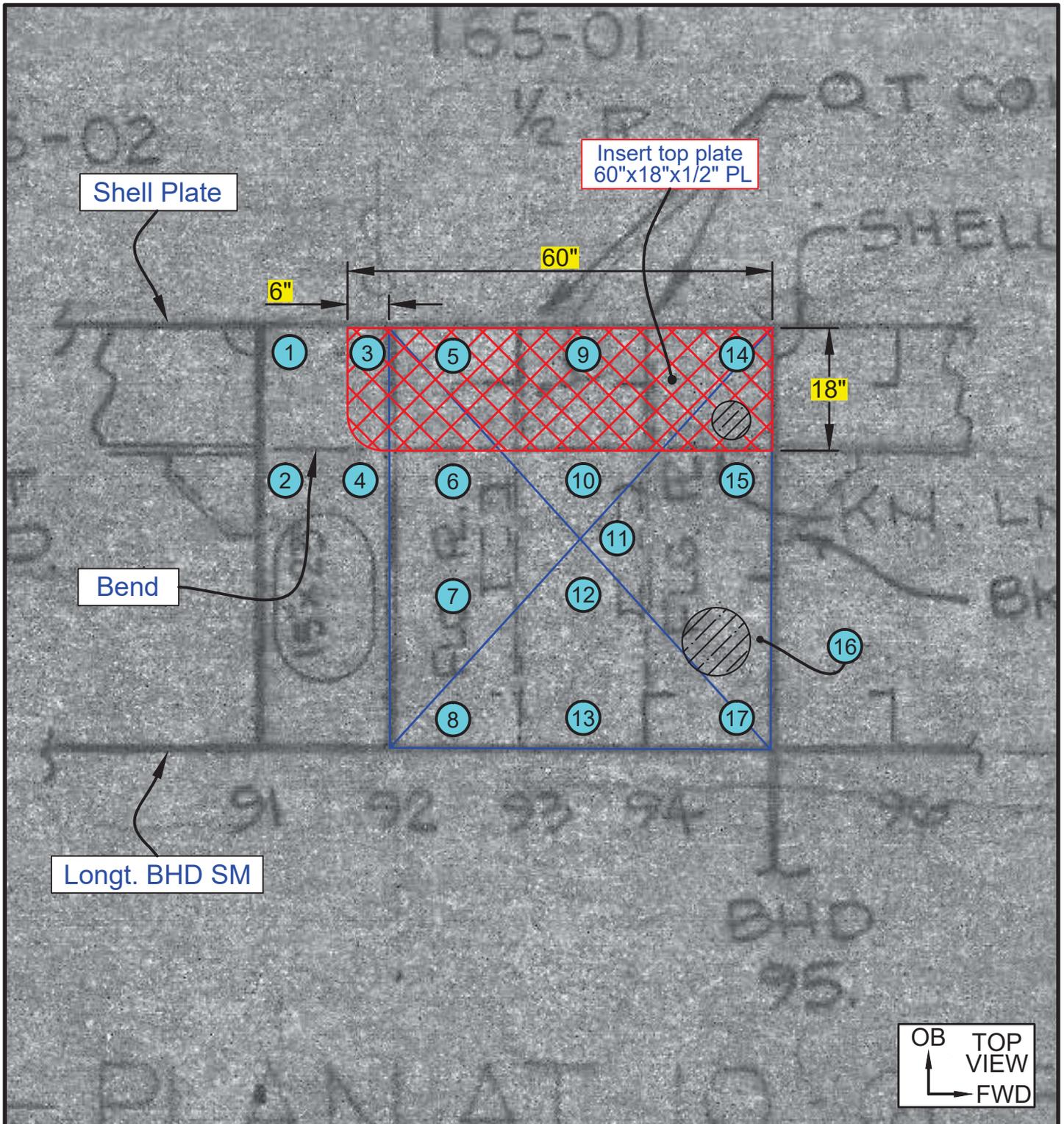


Projet / Project N.G.C.C. Amundsen	
Titre / Title High sea box Aft Engine room - fr.92-95 - Port - SK23	
Client / Customer Travaux publics et Services gouvernementaux Canada	

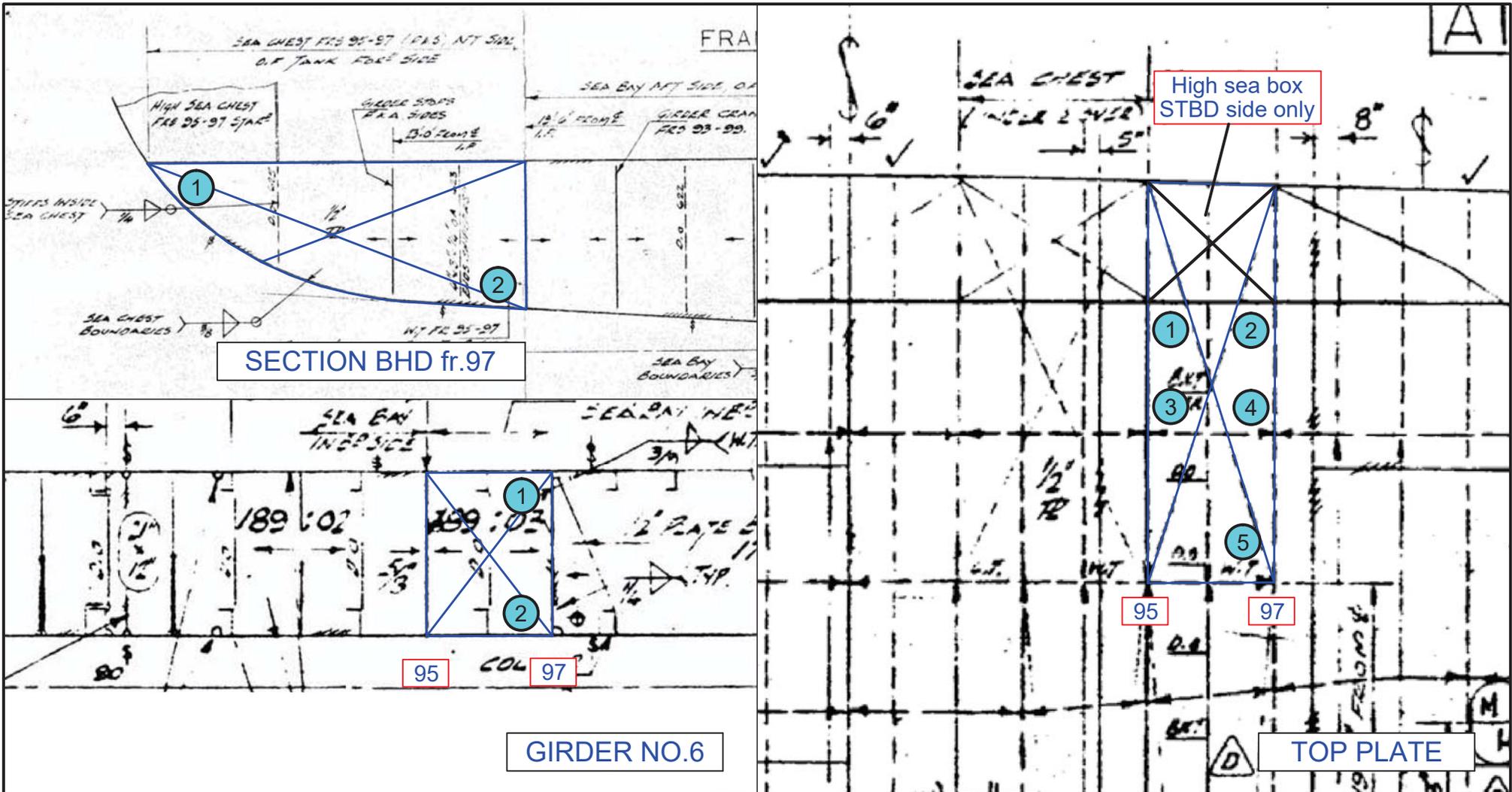
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Feuille / Sheet # 1 de 1
Format / Size Ansi A (H)

**INSPECTION PGL**  
8629331 CANADA INC.

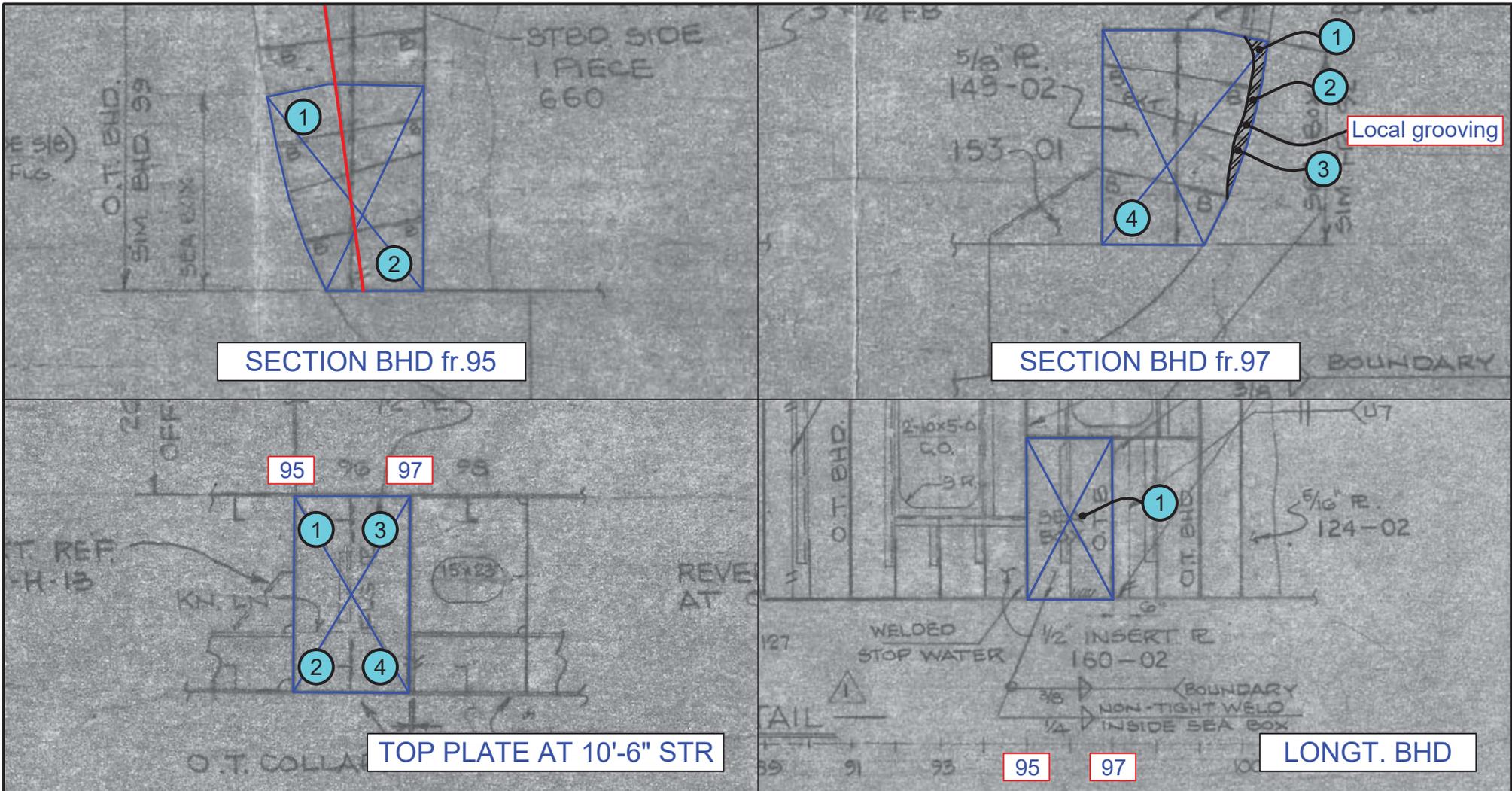
Préparé par / Prepared by Annie Truchon	Date 2018/01/05	Dessin / Drawing # PGL-131-2017-A_utm report_seachests_Amundsen_20180105.dwg	Rév. / Rev. # 0
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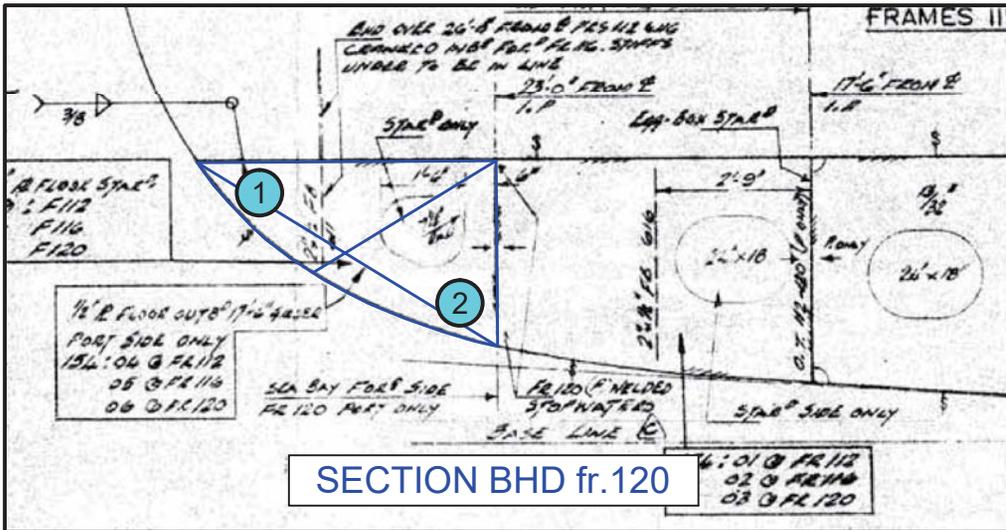
Projet / Project N.G.C.C. Amundsen				
Titre / Title - MESURES ADDITIONNELLES - High sea box Aft Engine room - Top Plate - fr.92-95 - Port - AR-SK1				
Client / Customer Travaux Publics et Services gouvernementaux Canada				
Préparé par / Prepared by Annie Truchon	Date 2018/01/08	Echelle / Scale Non à l'échelle	Feuille / Sheet # 1 de 1	Format / Size Ansi A (V)
Dessin / Drawing # PGL-131-2017-A_utm report_seachests_Amundsen_20180105.dwg			Rév. / Rev. # 0	



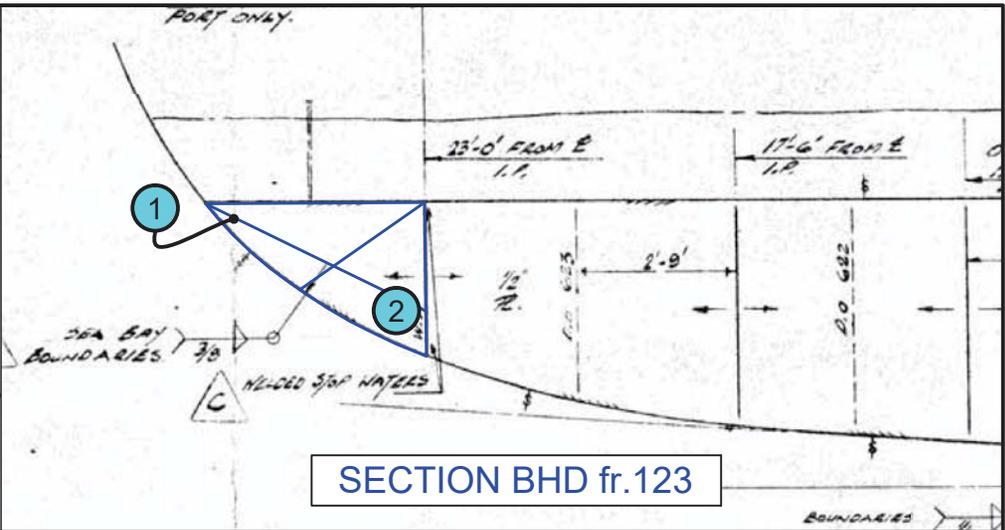
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Titre / Title Low sea box Fwd Engine room - fr.95-97 - Port & Starboard - SK24		Feuille / Sheet # 1 de 1		
Client / Customer Travaux publics et Services gouvernementaux Canada		Format / Size Ansi A (H)		
Préparé par / Prepared by Annie Truchon	Date 2018/01/05	Dessin / Drawing # PGL-131-2017-A_utm report_seachests_Amundsen_20180105.dwg	Rév. / Rev. # 0	



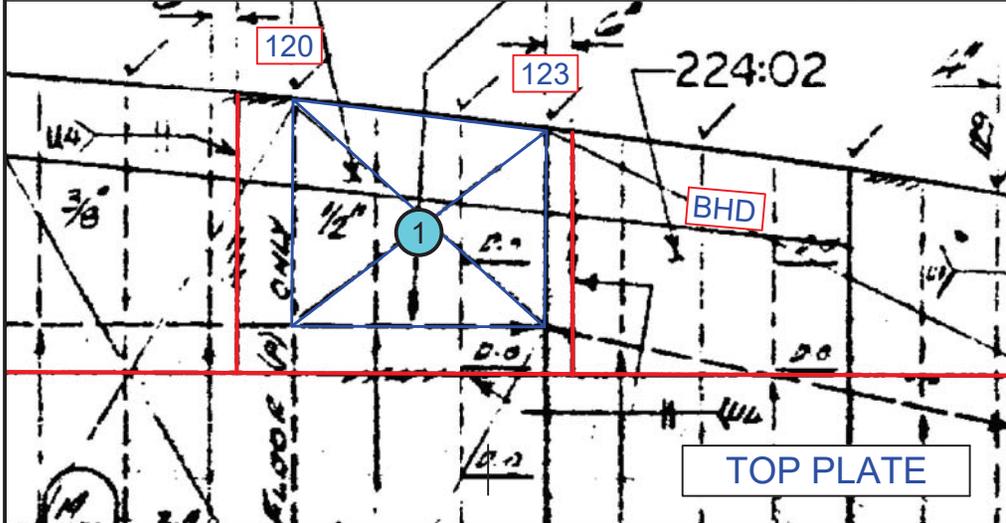
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Titre / Title High sea box Fwd Engine room - fr.95-97 - Starboard - SK25		Feuille / Sheet # 1 de 1		
Client / Customer Travaux publics et Services gouvernementaux Canada		Format / Size Ansi A (H)		
Préparé par / Prepared by Annie Truchon	Date 2018/01/05	Dessin / Drawing # PGL-131-2017-A_utm report_seachests_Amundsen_20170105.dwg	Rév. / Rev. # 0	



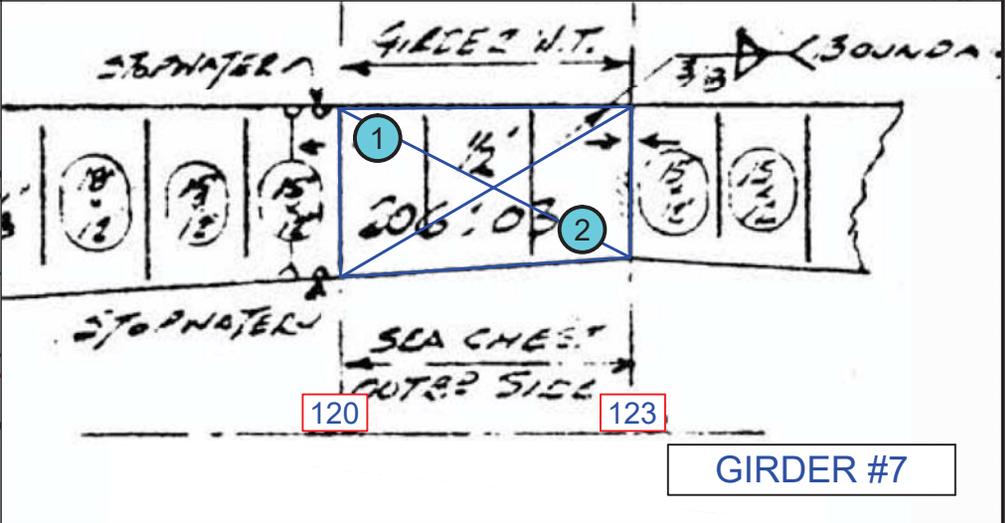
SECTION BHD fr.120



SECTION BHD fr.123

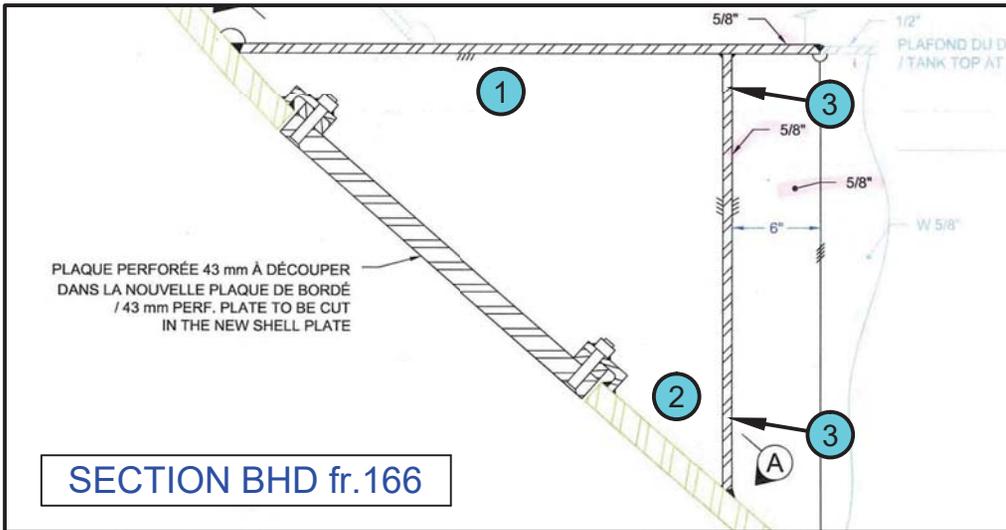


TOP PLATE

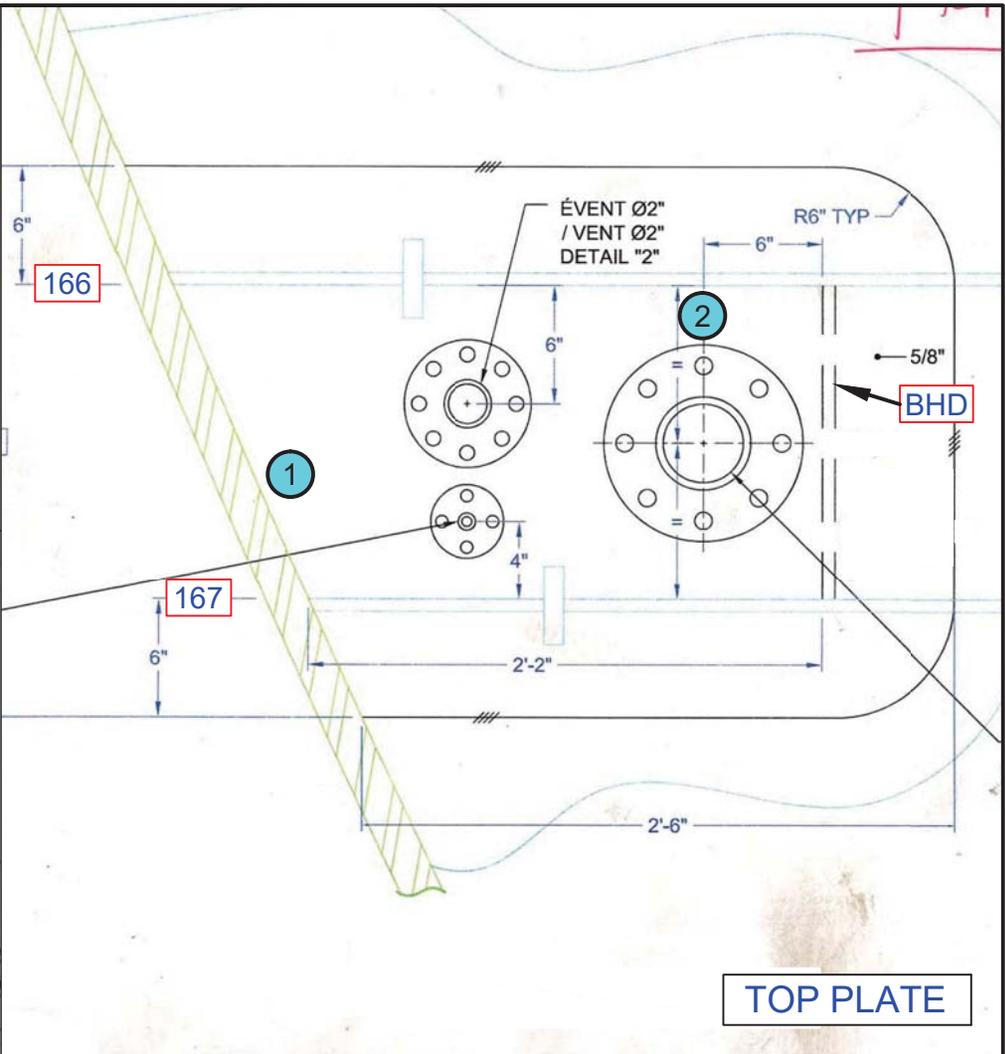


GIRDER #7

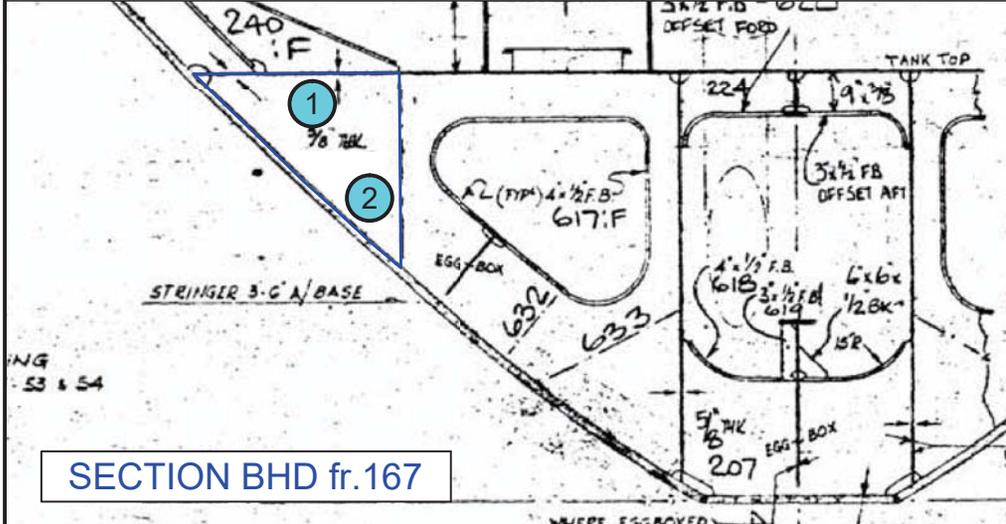
Projet / Project		
N.G.C.C. Amundsen		
Titre / Title		
Evaporator sea inlet box - fr.120-123 - Port - SK26		
Client / Customer		
Travaux publics et Services gouvernementaux Canada		Echelle / Scale
Préparé par / Prepared by		Non à l'échelle
Annie Truchon		Feuille / Sheet #
Date		1 de 1
2018/01/05		Format / Size
Dessin / Drawing #		Ansi A (H)
PGL-131-2017-A_utm report_seachests_Amundsen_20180105.dwg		Rév. / Rev. #
		0



SECTION BHD fr.166



TOP PLATE



SECTION BHD fr.167

Projet / Project N.G.C.C. Amundsen		Echelle / Scale Non à l'échelle	
Titre / Title Sea box inlet - Thruster compartment - fr.166-167 - Starboard - SK27			
Client / Customer Travaux publics et Services gouvernementaux Canada		Format / Size Ansi A (H)	
Préparé par / Prepared by Annie Truchon	Date 2018/01/05	Dessin / Drawing # PGL-131-2017-A_utm report_seachests_Amundsen_20180105.dwg	

