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LAMPIRAN

WELDING PROCEDURE SPECIFICATION (WPS) Yes

PREQUALIFIED
Company Name : PT DUMAS Tanjung Perak Shipyards
Welding Process : FCAW
Welder's name : Bing bing M
Supporting PQR no : 014 / PQR - NKK

QUALIFIED BY TESTING
WPS No. : 014
Revision : 0
Type Manual Semi Automatic
 Machine Automatic

JOINT DETAIL USED
Joint Design : Butt Joint
Single bevel **Double bevel**
Backing YES NO
Backing Material : Ceramic
Root opening : 8 - 10 mm **Root face opening** : mm
Groove angle : 60°
Back gauging YES NO
Method : -

GAS

	Gas	% Composition	Flow Rate
Shielding	CO2	99.90%	25
Backing	-	-	-
Trailing	-	-	-

BASE METAL
Material Spec : KSC42W to ST 41 grade KA
Grade : STEEL CASTING x STEEL GRADE KA
Thickness Groove : 25 mm **Fillet** : -
Thickness Range : Min : 12 mm Max : 60 mm

ELECTRICAL CHARACTERISTIC
Current AC DCEP DCEN Other's
Amp (Range) : Refer to table (below)
Volt (Range) : Refer to table (below)
Tungsten Electrode Size : N/A **Others** : NA

FILLER METAL
SFA Spec : A5.20
AWS Classification : E71T-1
Flux Trade Name : CHOSUN
Size : 1.2 mm
Thickness Range : Min : - Max : -

TECHNIQUE
Stringer **Weave** **Both**
Multipass **Singlepass**
Initial and Interpass cleaning : Grinding and Brushing
Peening : N/A
Contact tube to work distance : NA

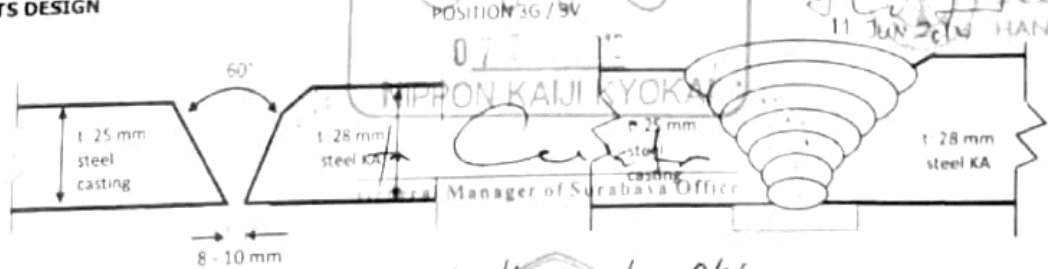
POSITION
Position of groove : 3G / 3V
Welding progression : Vertical

PREHEAT
Preheat temperature : 110° C
Interpass temperature : 110° C
POST WELD HEAT TREATMENT
Temperature : N/A **Time** : NA
Other's : N/A

WELDING PROCEDURE

Pass or weld layer's	Process	Filler metal		Current	Voltage	Travel speed (mm/min)	Heat input (J/mm) Max.
		AWS Class	Diameter (mm)				
All	FCAW	E71T-1	1.2	DCEP 140-170	20-30	40-80	3200-6400

JOINTS DESIGN



PREPARED BY
Name : SETYO AGUNG
Signature : [Signature]
Date : 17/12/2012

Witness by BKI
[Signature]
 17/12/2012

VERIFIED BY
Name : ARMYA
Signature : [Signature]
Date : 17 Dec 2012

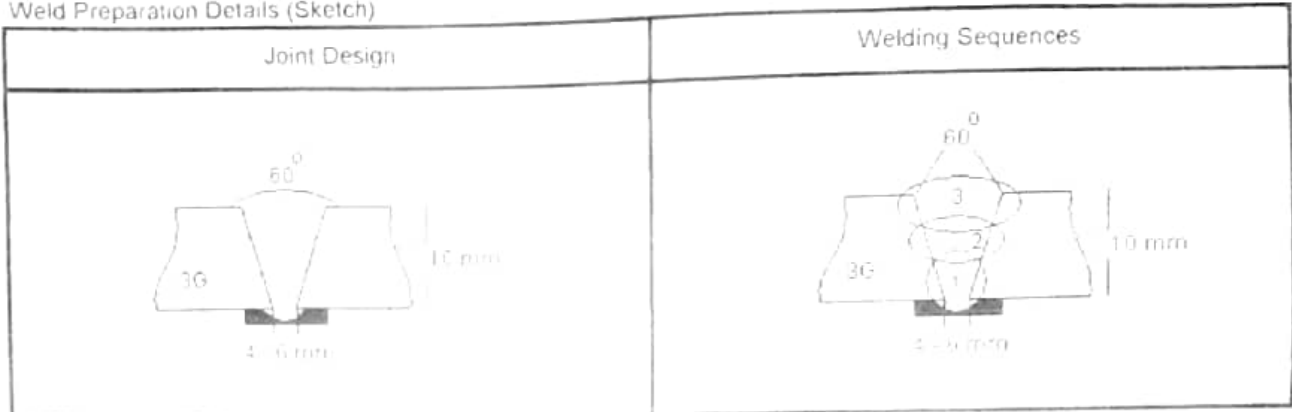


TANJUNG PERAK SHIPYARD

WELDING PROCEDURE SPECIFICATION (WPS)

Location : PT DUMAS
 Manufacturer's Welding Procedure : PT DUMAS
 Reference No : 1-2
 Manufacturer : PT DUMAS
 Welder's Name : BILLY. S
 Welding Process : FCAW
 Joint Type : "V" GROVEE
 Weld Preparation Details (Sketch)

Examiner or Test Body : LLOYD'S REGISTER
 Method of Preparation and Cleaning : CHIPPING AND GRINDING
 Parent Material Specification : GRADE A
 Material Thickness (mm) : 3mm - 20mm
 Outside Diameter : -
 Welding Position : 3G



Welding Details

Run	Process	Size of Filler Metals	Current A	Voltage V	Type of Current / Polarity	Wire Feed Speed	Travel Speed	Heat Input
1	FCAW	Ø 1.2mm	125 - 160	28 - 35	DCEP		40 - 80	

Filler Metal Classification and Trade Name : A 5-20 .E71 T-1

Any Special Baking or Drying : CERAMIC

Gas / Flux : - Shielding : CO₂

- Backing : -

Gas Flow Rate : Shielding : 15 - 20 L/min

- Backing : -

Tungsten Electrode Type / Size : NONE

Details of Back Gouging / Backing : NONE

Preheat Temperature : NONE

Interpass Temperature : < 205 °C

Post Weld Heat Treatment and / or Ageing : NONE

Other Information

e.g Weaving (Maximum Width of Run) : NONE

Oscillation (amplitude, frequency, dwell time)

Pulse welding details : NONE

Stand off distance : NONE

Plasma welding details : NONE

Torch angle : NONE

Time, Temperature, Method : NONE

Heating and Cooling Rates : NONE

Manufacturer : *Witness by* Examiner or test body

[Signature]
PT. DUMAS
 TANJUNG PERAK SHIPYARD
 Surabaya, 20 April 2009

[Signature]
 RACHMADY
 17/12/2013 Surabaya, 20 April 2009

[Signature]
 2. ARIFIN



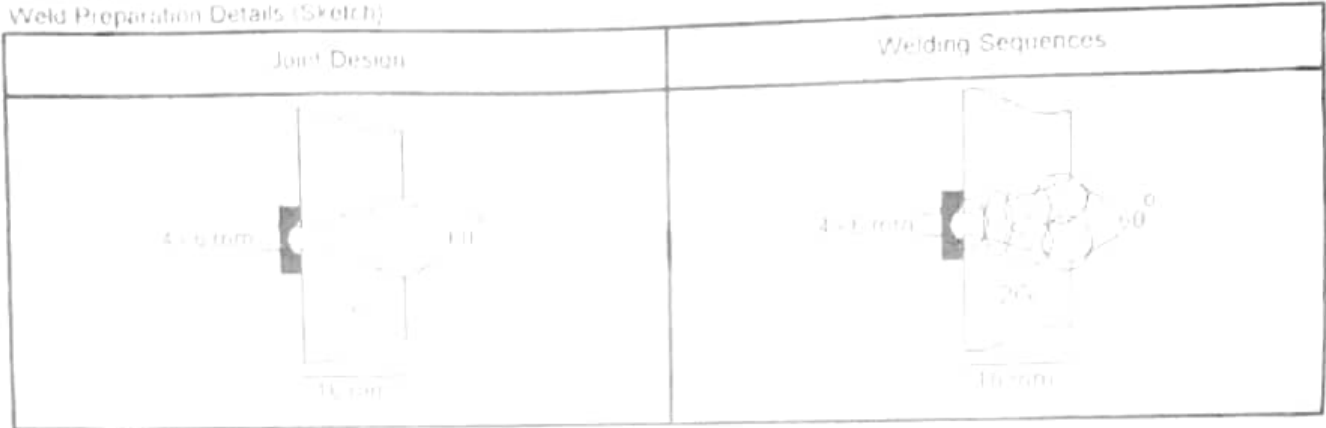
PT DUMAS
TANJUNG PERAK SHIPYARD

WELDING PROCEDURE SPECIFICATION (WPS)

LLOYD'S REGISTER

Location: PT DUMAS
 Manufacturer's Welding Procedure: PT DUMAS
 Reference No.: 1-1
 Manufacturer: PT DUMAS
 Welder's Name: BILLY S
 Welding Process: FCAW
 Joint Type: "V" GROOVE
 Weld Preparation Details (Sketch):

Examiner or Test Body: LLOYD'S REGISTER
 Method of Preparation and Cleaning: CHIPPING AND GRINDING
 Parent Material Specification: GRADE A
 Material Thickness (mm): 3mm - 20mm
 Outside Diameter: 2G
 Welding Position: 2G



Welding Details

Run	Process	Size of Filler Metals	Electrode #	Voltage V	Type of Current / Polarity	Wire Feed Speed	Travel Speed	Heat Input
1	FCAW	A 5-20	E71 T-1	160 - 175	DCSP	40 - 80		

Filler Metal Classification and Trade Name: A 5-20 E71 T-1
 Any Special Baking or Drying: CERAMIC
 Gas - Flux: Shielding: CO₂ Other Information: e.g Weaving (Maximum Width of Run) NONE
 - Backing: - Oscillation (amplitude, frequency, dwell time)
 Gas Flow Rate: Shielding: 15 - 20 L/min
 Backing: -
 Tungsten Electrode Type: Size: NONE Pulse welding details: NONE
 Details of Backing: Backing: NONE
 Preheat Temperature: NONE Stand off distance: NONE
 Interpass Temperature: ≤ 205 °C Plasma welding details: NONE
 Post-Weld Heat Treatment and/or Aging: Torch angle: NONE
 Time-Temperature Method: NONE
 Heating and Cooling Rates: NONE

Manufacturer: *Witness by OK* Examiner or test body

PT. DUMAS
 TANJUNG PERAK SHIPYARD
 SERIGAWA
 Surabaya, 20 April 2009

Z. ARIFIN
 Z. ARIFIN

13/12/2013 Surabaya, 20 April 2009

WELDING PROCEDURE SPECIFICATION (WPS) Yes

PREQUALIFIED

QUALIFIED BY TESTING

Company Name : PT Dumas Tanjung Perak Shipyard
Welding Process : FCAW
Welder's name : Billy Sumardi
Supporting PQR no : 013 / PQR - NKK

WPS No. : 013
Revision : 0
Type : Manual Semi Automatic
Machine Automatic

JOINT DETAIL USED

Joint Design : Butt Joint
Single bevel Double bevel
Backing YES NO
Backing Material : Ceramic
Root opening : 8-10 mm Root face opening : mm
Groove angle : 75°
Back gauging YES NO
Method : -

GAS

	Gas	% Composition	Flow Rate
Shielding	CO2	99.90%	25
Backing	-	-	-
Trailing	-	-	-

BASE METAL

Material Spec : KSC42W (casting) to ST 41 grade KA
Grade : Casting x grade K A
Thickness Groove : 25 mm Fillet : -
Thickness Range : Min : 12 mm Max : 60 mm

ELECTRICAL CHARACTERISTIC

Current AC DCEP DCEN Other's
Amp (Range) : Refer to table (below)
Volt (Range) : Refer to table (below)
Tungsten Electrode Size : N/A Others : NA

FILLER METAL

SFA Spec : A5.20
AWS Classification : E71T-1
Flux Trade Name : CHOSUN
Size : 1.2 mm
Thickness Range : Min : - Max : -

TECHNIQUE

Stringer Weave Both
Multipass Singlepass
Initial and Interpass cleaning : Grinding and Brushing
Peening : N.A
Contact tube to work distance : NA

POSITION

Position of groove : 2G / 3H
Welding progression : Horizontal

PREHEAT

Preheat temperature : 110° C
Interpass temperature : 110° C

POST WELD HEAT TREATMENT

Temperature : N.A Time : NA
Other's : N.A

WELDING PROCEDURE

Pass or weld layer's	Process	Filler metal		Current Polarity	Ampere	Voltage	Travel speed (mm/min)	Heat input (J/mm) Max.
		AWS Class	Diameter (mm)					
All	FCAW	E71T-1	1.2	DCEP	150 - 170	20 - 35	60 - 385	590 - 3200

JOINTS DESIGN



RINA
HANDY
11/6/2014

PREPARED BY
Name : SETYO AGUNG
Signature : *[Signature]*
Date : 17/12/2012

Witness by OKI
[Signature]
RACHMATA
13/12/2013

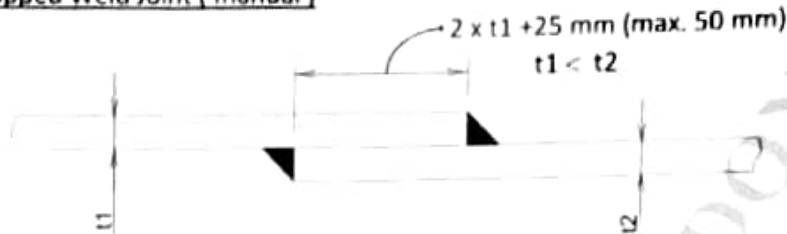
VERIFIED BY
Name : ARMYAN R.
Signature : *[Signature]*
Date : 17 Dec 2012



WELDING DETAIL AND PROCEDURE

Project No: ABH21044
 Document No: H - 22 - 004
 Page: 10 of 13

(1) Lapped Weld Joint (manual)



(2) Slot Weld Joint (manual)

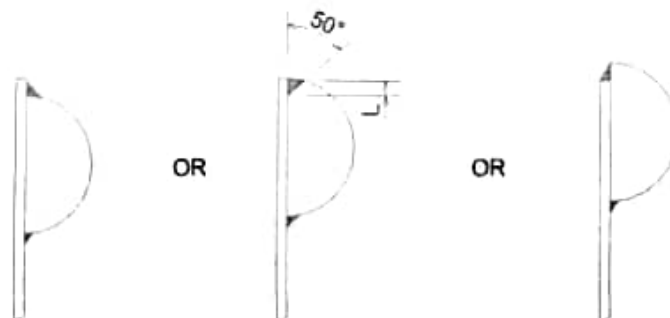


Slot welding to be based on a weld factor 0.44

Thickness(t)	Leg length	Thickness(t)	Leg length	Thickness(t)	Leg length
4	4.0	17	10.5	30	19
5	4.5	18	11.5	31	19.5
6	5.0	19	12	32	20
7	5.0	20	12.5	33	21
8	5.5	21	13.5	34	21.5
9	6.0	22	14	35	22
10	6.5	23	14.5	36	22.5
11	7.0	24	15	37	23.5
12	7.5	25	16	38	24
13	8.0	26	16.5	39	24.5
14	9.0	27	17	40	25
15	9.5	28	17.5	41	26
16	10.0	29	18.5	42	26.5

(3) Miscaellaneous Weld (manual)

i.) Half Round Bar



ASSEMBLY PART LIST BLOCK B04											
HARBOUR TUG 2x2200 HP PT.DUMAS											
Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las	Luas Permukaan	Volume
	(mm)				Double Continues Weld	Slag Intermit Weld			(mm)	(mm ²)	(mm ³)
B04_A1-IP	9		Tee Weld Joint	FCAW	6		2F	1	19912	18	358416
			Butt Weld Joint	FCAW	6		3G	3	10008	131.9333	440129.4888
B04_A1-IS	9		Tee Weld Joint	FCAW	6		2F	1	19912	18	358416
			Butt Weld Joint	FCAW	6		3G	3	10008	131.9333	440129.4888
B04_B1-IP	12		Butt Weld Joint	FCAW	7.5		3G	7	7714	170.4105	187792.371
			Tee Weld Joint	FCAW	7.5		2F	1	4800	28.125	135000
B04_B1-IS	12		Butt Weld Joint	FCAW	7.5		3G	7	7714	170.4105	187792.371
			Tee Weld Joint	FCAW	7.5		2F	1	4800	28.125	135000
B04_C1-IP	9		Butt Weld Joint	FCAW	6		3G	3	2343	131.9333	103039.9073
			Tee Weld Joint	FCAW	6		2F	1	5536	18	99648
B04_C1-IS	9		Butt Weld Joint	FCAW	6		3G	3	2343	131.9333	103039.9073
			Tee Weld Joint	FCAW	6		2F	1	5536	18	99648
B04_D1-IP	9		Butt Weld Joint	FCAW	6		3G	3	5751	131.9333	252916.1361
			Tee Weld Joint	FCAW	6		2F	1	6004	18	108072
B04_D1-IS	9		Butt Weld Joint	FCAW	6		3G	3	5751	131.9333	252916.1361
			Tee Weld Joint	FCAW	6		2F	1	6004	18	108072
B04_E1-IP	12		Butt Weld Joint	FCAW	7.5		3G	7	13461	170.4105	327699.3915
			Tee Weld Joint	FCAW	7.5		2F	1	6526	28.125	183543.75
B04_E1-IS	12		Butt Weld Joint	FCAW	7.5		3G	7	13461	170.4105	327699.3915
			Tee Weld Joint	FCAW	7.5		2F	1	6526	28.125	183543.75
B04_F1-IP	9		Butt Weld Joint	FCAW	6		3G	3	2343	131.9333	103039.9073
			Tee Weld Joint	FCAW	6		2F	1	5536	18	99648
B04_F1-IS	9		Butt Weld Joint	FCAW	6		3G	3	2343	131.9333	103039.9073
			Tee Weld Joint	FCAW	6		2F	1	5536	18	99648
B04_F1A-IP	12		Butt Weld Joint	FCAW	7.5		3G	7	59593.38	170.4105	1450762.526
			Tee Weld Joint	FCAW	7.5		2F	1	15326.78	28.125	431065.6875
B04_F1A-IS	12		Butt Weld Joint	FCAW	7.5		3G	7	59593.38	170.4105	1450762.526
			Tee Weld Joint	FCAW	7.5		2F	1	15326.78	28.125	431065.6875
B04_G1-IP	12		Butt Weld Joint	FCAW	7.5		3G	7	8400	170.4105	204492.6
B04_G1-IS	12		Butt Weld Joint	FCAW	7.5		3G	7	8400	170.4105	204492.6
B04_G1A-1C	12		Butt Weld Joint	FCAW	7.5		3G	7	12320	170.4105	299922.48
			Tee Weld Joint	FCAW	7.5		2F	1	12060.96	28.125	339214.5
B04_KE1A-1C	9		Tee Weld Joint	FCAW	6		2F	1	19912	18	358416
			Butt Weld Joint	FCAW	6		3G	3	10008	131.9333	440129.4888
B04-10T1-1P	9		Tee Weld Joint	FCAW	6		3F	1	1556	18	28008
B04-10T1-1S	9		Tee Weld Joint	FCAW	6		3F	1	1556	18	28008
B04-11T1-1P	9		Tee Weld Joint	FCAW	6		3F	1	3680	18	66240
B04-11T1-1S	9		Tee Weld Joint	FCAW	6		3F	1	3680	18	66240
B04-11T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-11T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-12T1-1P	9		Tee Weld Joint	FCAW	6		3F	1	2136	18	38448
B04-12T1-1S	9		Tee Weld Joint	FCAW	6		3F	1	2136	18	38448
B04-13T1-1P	9		Tee Weld Joint	FCAW	6		3F	1	3848	18	69264
B04-13T1-1S	9		Tee Weld Joint	FCAW	6		3F	1	3848	18	69264
B04-13T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	2080	12.5	26000
B04-13T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	2080	12.5	26000
B04-17T1-1P	9		Tee Weld Joint	FCAW	6		3F	1	3636	18	65448
B04-17T1-1S	9		Tee Weld Joint	FCAW	6		3F	1	3636	18	65448
B04-17T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	1922	12.5	24025
B04-17T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	1922	12.5	24025
B04-18T1-1P	9		Tee Weld Joint	FCAW	6		3F	1	2136	18	38448
B04-18T1-1S	9		Tee Weld Joint	FCAW	6		3F	1	2136	18	38448
B04-19T1-1P	9		Tee Weld Joint	FCAW	6		3F	1	3680	18	66240
B04-19T1-1S	9		Tee Weld Joint	FCAW	6		3F	1	3680	18	66240
B04-19T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-19T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-20T1-1P	9		Tee Weld Joint	FCAW	6		3F	1	1570	18	28260
B04-20T1-1S	9		Tee Weld Joint	FCAW	6		3F	1	1570	18	28260
B04-21T1-1P	9		Tee Weld Joint	FCAW	6		3F	1	3680	18	66240
B04-21T1-1S	9		Tee Weld Joint	FCAW	6		3F	1	3680	18	66240
B04-21T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-21T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-23T1-1P	9		Tee Weld Joint	FCAW	6		3F	1	3680	18	66240
B04-23T1-1S	9		Tee Weld Joint	FCAW	6		3F	1	3680	18	66240
B04-23T1-21P	10		Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-23T1-21S	10		Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-23T1-22	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-23T1-22	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-23T1-23	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-23T1-23	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-24T1-1P	9		Tee Weld Joint	FCAW	6		3F	1	1508	18	27144
B04-24T1-1S	9		Tee Weld Joint	FCAW	6		3F	1	1508	18	27144
B04-25T1-1P	9		Tee Weld Joint	FCAW	6		3F	1	4866	18	87588
B04-25T1-1S	9		Tee Weld Joint	FCAW	6		3F	1	4866	18	87588
B04-25T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	2138	12.5	26725
B04-25T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	2138	12.5	26725
B04-29T1-1P	9		Tee Weld Joint	FCAW	6		3F	1	3058	18	55044
B04-29T1-1S	9		Tee Weld Joint	FCAW	6		3F	1	3058	18	55044
B04-29T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	1908	12.5	23850
B04-29T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	1908	12.5	23850
B04-30T1-1P	9		Tee Weld Joint	FCAW	5		3F	1	2128	12.5	26600
B04-30T1-1S	9		Tee Weld Joint	FCAW	5		3F	1	2128	12.5	26600
B04-31T1-1P	9		Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-31T1-1S	9		Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-31T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	3680	12.5	46000
B04-31T1-21	RBAR	30	Tee Weld Joint	FCAW	5		3F	1	3680	12.5	46000

Part name	Ketebalan Plat (mm)	Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
				Double Continues Weld	Slag Intermit Weld					
B04-32T1-1P	9	Tee Weld Joint	FCAW	5		3F	1	2128	12.5	26600
B04-32T1-1S	9	Tee Weld Joint	FCAW	5		3F	1	2128	12.5	26600
B04-33T1-1P	9	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-33T1-1S	9	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-33T1-21	RBAR 30	Tee Weld Joint	FCAW	5		3F	1	3680	12.5	46000
B04-33T1-21	RBAR 30	Tee Weld Joint	FCAW	5		3F	1	3680	12.5	46000
B04-34T1-1P	9	Tee Weld Joint	FCAW	5		3F	1	2128	12.5	26600
B04-34T1-1S	9	Tee Weld Joint	FCAW	5		3F	1	2128	12.5	26600
B04-35T1-1P	9	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-35T1-1S	9	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-35T1-21	RBAR 30	Tee Weld Joint	FCAW	5		3F	1	3680	12.5	46000
B04-35T1-21	RBAR 30	Tee Weld Joint	FCAW	5		3F	1	3680	12.5	46000
B04-36T1-1P	9	Tee Weld Joint	FCAW	5		3F	1	2128	12.5	26600
B04-36T1-1S	9	Tee Weld Joint	FCAW	5		3F	1	2128	12.5	26600
B04-37T1-1P	9	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-37T1-1S	9	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-37T1-21	RBAR 30	Tee Weld Joint	FCAW	5		3F	1	3680	12.5	46000
B04-37T1-21	RBAR 30	Tee Weld Joint	FCAW	5		3F	1	3680	12.5	46000
B04-41T1-1P	9	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-41T1-1S	9	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-41T1-21	RBAR 30	Tee Weld Joint	FCAW	5		3F	1	3680	12.5	46000
B04-41T1-21	RBAR 30	Tee Weld Joint	FCAW	5		3F	1	3680	12.5	46000
B04-42T1-1P	9	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-42T1-1S	9	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-42T1-21	RBAR 30	Tee Weld Joint	FCAW	5		3F	1	3680	12.5	46000
B04-42T1-21	RBAR 30	Tee Weld Joint	FCAW	5		3F	1	3680	12.5	46000
B04-43T1-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-43T1-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-43T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-43T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-44T1-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-44T1-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-44T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-44T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-45T1-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-45T1-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-45T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-45T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-46T1-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-46T1-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-46T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-46T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-47T1-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-47T1-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-47T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-47T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-48T1-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-48T1-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-48T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-48T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-49T1-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-49T1-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-49T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-49T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-50T1-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-50T1-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	2156	28.125	60637.5
B04-50T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-50T1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	3680	28.125	103500
B04-6T1-1P	9	Tee Weld Joint	FCAW	5		3F	1	1570	12.5	19625
B04-6T1-1S	9	Tee Weld Joint	FCAW	5		3F	1	1570	12.5	19625
B04-7T1-1P	9	Tee Weld Joint	FCAW	5		3F	1	4294	12.5	53675
B04-7T1-1S	9	Tee Weld Joint	FCAW	5		3F	1	4294	12.5	53675
B04-7T1-21	RBAR 30	Tee Weld Joint	FCAW	5		3F	1	2160	12.5	27000
B04-7T1-21	RBAR 30	Tee Weld Joint	FCAW	5		3F	1	2160	12.5	27000
B04-8T1-1P	9	Tee Weld Joint	FCAW	5		3F	1	2144	12.5	26800
B04-8T1-1S	9	Tee Weld Joint	FCAW	5		3F	1	2144	12.5	26800
B04-9T1-1P	9	Tee Weld Joint	FCAW	5		3F	1	3680	12.5	46000
B04-9T1-1S	9	Tee Weld Joint	FCAW	5		3F	1	3680	12.5	46000
B04-9T1-21	RBAR 30	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
B04-9T1-21	RBAR 30	Tee Weld Joint	FCAW	5		3F	1	2156	12.5	26950
								0	0	0
B04-B10-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	1951	28.125	54871.875
B04-B10-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	1951	28.125	54871.875
B04-B10-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1112	28.125	31275
B04-B10-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1112	28.125	31275
B04-B11-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	1951	28.125	54871.875
B04-B11-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	1951	28.125	54871.875
B04-B11-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1090	28.125	30656.25
B04-B11-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1090	28.125	30656.25
B04-B1-1C	12	Tee Weld Joint	FCAW	7.5		3F	1	2190.32	28.125	61602.75
B04-B1-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1502	28.125	42243.75
B04-B2-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	2190.32	28.125	61602.75
B04-B2-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	2190.32	28.125	61602.75
B04-B2-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1502	28.125	42243.75
B04-B2-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1502	28.125	42243.75
B04-B3-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	2190.32	28.125	61602.75
B04-B3-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	2190.32	28.125	61602.75
B04-B3-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1534	28.125	43143.75
B04-B3-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1534	28.125	43143.75
B04-B4-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	2190.32	28.125	61602.75

Part name	Ketebalan Plat (mm)	Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
				Double Continues Weld	Slag Intermit Weld					
B04-B4-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	2190.32	28.125	61602.75
B04-B4-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1576	28.125	44325
B04-B4-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1576	28.125	44325
B04-B5-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	2190.32	28.125	61602.75
B04-B5-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	2190.32	28.125	61602.75
B04-B5-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1664	28.125	46800
B04-B5-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1664	28.125	46800
B04-B5A-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	2190.32	28.125	61602.75
B04-B5A-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	2190.32	28.125	61602.75
B04-B5A-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1516	28.125	42637.5
B04-B5A-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1516	28.125	42637.5
B04-B6-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	1951	28.125	54871.875
B04-B6-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	1951	28.125	54871.875
B04-B6-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1620	28.125	45562.5
B04-B6-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1620	28.125	45562.5
B04-B7-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	1951	28.125	54871.875
B04-B7-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	1951	28.125	54871.875
B04-B7-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1288	28.125	36225
B04-B7-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1288	28.125	36225
B04-B8-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	1951	28.125	54871.875
B04-B8-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	1951	28.125	54871.875
B04-B8-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1210	28.125	34031.25
B04-B8-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1210	28.125	34031.25
B04-B9-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	1951	28.125	54871.875
B04-B9-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	1951	28.125	54871.875
B04-B9-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1152	28.125	32400
B04-B9-21	RBAR 30	Tee Weld Joint	FCAW	7.5		3F	1	1152	28.125	32400
								0	0	0
B04-BLB10-1P	10	Tee Weld Joint	FCAW	5		2F	1	1554	12.5	19425
B04-BLB10-1S	10	Tee Weld Joint	FCAW	5		2F	1	1554	12.5	19425
B04-BLB10-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1097.7	12.5	13721.25
B04-BLB10-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1097.7	12.5	13721.25
B04-BLB11-1P	10	Tee Weld Joint	FCAW	5		2F	1	1558	12.5	19475
B04-BLB11-1S	10	Tee Weld Joint	FCAW	5		2F	1	1558	12.5	19475
B04-BLB11-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1095.78	12.5	13697.25
B04-BLB11-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1095.78	12.5	13697.25
B04-BLB1-1P	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB1-1S	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB1-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB1-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB12-1P	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB12-1S	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB12-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB12-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB13-1P	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB13-1S	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB13-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB13-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB15-1P	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB15-1S	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB15-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB15-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB19-1P	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB19-1S	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB19-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB19-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB20-1P	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB20-1S	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB20-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB20-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB21-1P	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB21-1S	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB21-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB21-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB2-1P	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB2-1S	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB2-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB2-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB22-1P	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB22-1P	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB22-1S	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB22-1S	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB22-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB22-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB22-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB22-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB24-1P	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB24-1S	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB24-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB24-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB3-1P	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB3-1S	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB3-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB3-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB4-1P	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB4-1S	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB4-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB4-21	FB 80*9.0	Tee Weld Joint	FCAW	5		2F	1	1268.86	12.5	15860.75
B04-BLB5-1P	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325
B04-BLB5-1S	10	Tee Weld Joint	FCAW	5		2F	1	1786	12.5	22325

Part name	Ketebalan Plat (mm)	Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
				Double Continues Weld	Slag Intermit Weld					
B04-S01-1P	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S01-1S	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S02-1P	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S02-1S	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S03-1P	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S03-1S	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S04-1P	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S04-1S	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S05-1P	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S05-1S	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S06-1P	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S06-1S	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S07-1P	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S07-1S	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S08-1P	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S08-1S	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S09-1P	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S09-1S	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S10-1P	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S10-1S	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S11-1P	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
B04-S11-1S	9	Tee Weld Joint	FCAW	5		2F	1	1724.12	12.5	21551.5
										0
										0
Erection		Tee Weld Joint	FCAW	6		1F	1	23484.04	18	422712.72
		Tee Weld Joint	FCAW	6		1F	1	10444.92	18	188008.56
		Tee Weld Joint	FCAW	6		1F	1	367956.88	18	6623223.84
		Tee Weld Joint	FCAW	6		1F	1	10539.36	18	189708.48
		Tee Weld Joint	FCAW	6		1F	1	25480	18	458640
		Tee Weld Joint	FCAW	6		1F	1	9049.2	18	162885.6
										0
										0
		Tee Weld Joint	SMAW	6		1F	1	2000	18	36000

ASSEMBLY PART LIST BLOCK B05											
HARBOUR TUG 2x2200 HP PT.DUMAS											
Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermit Weld					
B05-18T1-1C		8	Butt Weld Joint	FCAW	5		2G	6	35802	131.9333	787246.001
			Tee Weld Joint	FCAW	5		3F	1	4700	12.5	58750
B05-18T1-21	L	75*75*6.0	Tee Weld Joint	FCAW		4.5	3F	1	2838	10.125	28734.75
B05-18T1-22	L	75*75*6.0	Tee Weld Joint	FCAW		4.5	3F	1	430	10.125	4353.75
B05-18T1-22	L	75*75*6.0	Tee Weld Joint	FCAW		4.5	3F	1	430	10.125	4353.75
B05-18T1-23	L	75*75*6.0	Tee Weld Joint	FCAW		4.5	2F	1	889	10.125	9001.125
B05-18T1-24	L	75*75*6.0	Tee Weld Joint	FCAW		4.5	2F	1	426	10.125	4313.25
B05-18T1-25	L	75*75*6.0	Tee Weld Joint	FCAW		4.5	2F	1	889	10.125	9001.125
B05-18T1-26	L	75*75*6.0	Tee Weld Joint	FCAW		4.5	2F	1	426	10.125	4313.25
B05-18T1-27	L	75*75*6.0	Tee Weld Joint	FCAW		4.5	3F	1	546	10.125	5528.25
B05-18T1-27	L	75*75*6.0	Tee Weld Joint	FCAW		4.5	3F	1	546	10.125	5528.25
B05-18T1-2C		8	Butt Weld Joint	FCAW	5		3F	3	10020	131.9333	440657.222
			Tee Weld Joint	FCAW	5		3F	1	6680	12.5	83500
B05-18T1-3C		8	Butt Weld Joint	FCAW	5		3F	3	12702	131.9333	558605.592
			Tee Weld Joint	FCAW	5		3F	1	4700	12.5	58750
B05-18T2-1P		8	Butt Weld Joint	FCAW	5		3G	3	13386	131.9333	588686.385
B05-18T2-1S		8	Butt Weld Joint	FCAW	5		3G	3	13386	131.9333	588686.385
B05-18T2-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1672	12.5	20900
B05-18T2-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1672	12.5	20900
B05-18T3-1C		8	Corner Weld Joint	FCAW	5		2F	1	9176	12.5	114700
B05-18T3-22S		7	Tee Weld Joint	FCAW	5		2F	1	1000	12.5	12500
B05-18T3-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	426	12.5	5325
B05-18T3-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	426	12.5	5325
B05-18T3-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	426	12.5	5325
											0
B05-19T1-1P		7	Tee Weld Joint	FCAW	5		3F	1	6234	12.5	77925
B05-19T1-1S		7	Tee Weld Joint	FCAW	5		3F	1	6234	12.5	77925
B05-19T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5800	12.5	72500
B05-19T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5800	12.5	72500
B05-19T3-1P		7	Lapped Weld Joint	SMAW	5		2F	1	139	12.5	1737.5
			Tee Weld Joint	FCAW	5		3F	1	3130	12.5	39125
B05-19T3-1S		7	Lapped Weld Joint	SMAW	5		2F	1	139	12.5	1737.5
			Tee Weld Joint	FCAW	5		3F	1	3130	12.5	39125
B05-19T3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	2976	12.5	37200
B05-19T3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	2976	12.5	37200
B05-19T3-22P		7	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	160	12.5	2000
B05-19T3-22S		7	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	160	12.5	2000
B05-19T4-1C		9	Tee Weld Joint	FCAW	5		1F	1	2368	12.5	29600
B05-19T4-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	1648	12.5	20600
B05-19T4-22P		7	Tee Weld Joint	FCAW	5		2F	1	440	12.5	5500
B05-19T5-1P		9	Tee Weld Joint	FCAW	5		1F	1	2898	12.5	36225
B05-19T5-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2148	12.5	26850
B05-19T5-22P		7	Tee Weld Joint	FCAW	5		2F	1	440	12.5	5500
B05-19T6-1C		9	Tee Weld Joint	FCAW	5		1F	1	1890	12.5	23625
B05-19T6-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	1140	12.5	14250
B05-19T6-22S		7	Tee Weld Joint	FCAW	5		2F	1	440	12.5	5500
B05-19T7-1C		9	Tee Weld Joint	FCAW	5		1F	1	3388	12.5	42350
B05-19T7-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2668	12.5	33350
B05-19T7-22S		7	Tee Weld Joint	FCAW	5		2F	1	440	12.5	5500
											0
B05-114-1S		9	Tee Weld Joint	FCAW	5		2F	1	2800	12.5	35000
B05-114-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2080	12.5	26000
B05-114-22S		8	Tee Weld Joint	FCAW	5		2F	1	590	12.5	7375
B05-114-23S		7	Tee Weld Joint	FCAW	5		2F	1	690	12.5	8625
B05-11B1-1P		10	Tee Weld Joint	FCAW	5		3F	1	1630	12.5	20375
B05-11B2-1C		7	Tee Weld Joint	FCAW	5		2F	1	1380	12.5	17250
B05-11B3-1C		7	Lapped Weld Joint	SMAW	5		2F	1	204	12.5	2550
			Tee Weld Joint	FCAW	5		3F	1	590	12.5	7375
B05-15G1-1P		16	Tee Weld Joint	FCAW	10		3F	1	7600	50	380000
B05-15G1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	6039.8806	50	301994.03
B05-15G3-1P		9	Tee Weld Joint	FCAW	5		1F	1	7492	12.5	93650
B05-15G3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	6348	12.5	79350
B05-15G3-22P		9	Tee Weld Joint	FCAW	5		2F	1	1000	12.5	12500
B05-15G3-23P		7	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B05-15G4-1P		7	Tee Weld Joint	FCAW	5		3F	1	12512	12.5	156400
											0
B05-20T1-1P		7	Tee Weld Joint	FCAW	5		3F	1	18798	12.5	234975
B05-20T1-1S		7	Tee Weld Joint	FCAW	5		3F	1	18798	12.5	234975
B05-20T1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3052	12.5	38150
B05-20T1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3052	12.5	38150
B05-20T1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3052	12.5	38150
B05-20T1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3052	12.5	38150
B05-20T1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3052	12.5	38150
B05-20T1-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1604	12.5	20050
B05-20T1-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1604	12.5	20050
B05-20T1-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1604	12.5	20050
B05-20T1-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1604	12.5	20050
B05-20T1-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1604	12.5	20050
											0
B05-21T1-1S		9	Tee Weld Joint	FCAW	5		1F	1	3388	12.5	42350
B05-21T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2668	12.5	33350
B05-21T1-22S		7	Tee Weld Joint	FCAW	5		2F	1	440	12.5	5500
B05-21T2-1P		9	Tee Weld Joint	FCAW	5		1F	1	2400	12.5	30000
B05-21T2-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	1642	12.5	20525

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermitt Weld					
B05-21T2-22P		7	Tee Weld Joint	FCAW	5		2F	1	440	12.5	5500
B05-21T3-1P		7	Tee Weld Joint	FCAW	5		3F	1	6380	12.5	79750
B05-21T3-1S		7	Tee Weld Joint	FCAW	5		3F	1	6380	12.5	79750
B05-21T3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5854	12.5	73175
B05-21T3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5854	12.5	73175
B05-21T4-1P		7	Lapped Weld Joint	SMAW	5		2F	1	139	12.5	1737.5
			Tee Weld Joint	FCAW	5		2F	1	3130	12.5	39125
B05-21T4-1S		7	Lapped Weld Joint	SMAW	5		2F	1	139	12.5	1737.5
			Tee Weld Joint	FCAW	5		2F	1	3130	12.5	39125
B05-21T4-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2994	12.5	37425
B05-21T4-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2994	12.5	37425
B05-21T4-22P		7	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	160	12.5	2000
B05-21T4-22S		7	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	160	12.5	2000
									0	0	0
B05-22T1-1P		7	Tee Weld Joint	FCAW	5		2F	1	17060	12.5	213250
B05-22T1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		2F	1	6722	12.5	84025
									0	0	0
B05-23T1-1C		9	Tee Weld Joint	FCAW	5		1F	1	3388	12.5	42350
B05-23T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2668	12.5	33350
B05-23T1-22S		7	Tee Weld Joint	FCAW	5		2F	1	440	12.5	5500
B05-23T2-1C		9	Tee Weld Joint	FCAW	5		1F	1	2400	12.5	30000
B05-23T2-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	1642	12.5	20525
B05-23T2-22P		7	Tee Weld Joint	FCAW	5		2F	1	440	12.5	5500
B05-23T3-1P		7	Tee Weld Joint	FCAW	5		3F	1	6380	12.5	79750
B05-23T3-1S		7	Tee Weld Joint	FCAW	5		3F	1	6380	12.5	79750
B05-23T3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5854	12.5	73175
B05-23T3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5854	12.5	73175
B05-23T4-1P		7	Lapped Weld Joint	SMAW	5		2F	1	139	12.5	1737.5
			Tee Weld Joint	FCAW	5		2F	1	3130	12.5	39125
B05-23T4-1S		7	Lapped Weld Joint	SMAW	5		2F	1	139	12.5	1737.5
			Tee Weld Joint	FCAW	5		2F	1	3130	12.5	39125
B05-23T4-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2994	12.5	37425
B05-23T4-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2994	12.5	37425
B05-23T4-22P		7	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	160	12.5	2000
B05-23T4-22S		7	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	160	12.5	2000
									0	0	0
B05-24T1-1C		7	Tee Weld Joint	FCAW	5		1F	1	27820	12.5	347750
B05-24T1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2125	12.5	26562.5
B05-24T1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2125	12.5	26562.5
B05-24T1-22	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2575	12.5	32187.5
B05-24T1-23	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2140	12.5	26750
B05-24T1-24	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	2F	1	1188	12.5	14850
B05-24T1-25	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	2F	1	864	12.5	10800
B05-24T1-26	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	2F	1	821	12.5	10262.5
B05-24T1-27	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	513	12.5	6412.5
B05-24T1-28	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	394	12.5	4925
B05-24T1-28P		7	Tee Weld Joint	FCAW	5		2F	1	948	12.5	11850
B05-24T1-29	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2680	12.5	33500
B05-24T1-2C		7	Butt Weld Joint	FCAW	5		2G	6	24000	131.9333	527733.2
B05-24T1-30	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	886	12.5	11075
B05-24T2-1P		8	Butt Weld Joint	FCAW	5		2G	6	23436	131.9333	515331.47
			Tee Weld Joint	FCAW	5		3F	1	2835.6194	12.5	35445.2425
B05-24T2-1S		8	Butt Weld Joint	FCAW	5		2G	6	23436	131.9333	515331.47
			Tee Weld Joint	FCAW	5		3F	1	2835.6194	12.5	35445.2425
B05-24T2-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2600	12.5	32500
B05-24T2-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2600	12.5	32500
B05-24T2-22	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2600	12.5	32500
B05-24T2-22	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2600	12.5	32500
B05-24T2-23	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2600	12.5	32500
B05-24T2-23	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2600	12.5	32500
									0	0	0
B05-25T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	3774	12.5	47175
B05-25T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2792	12.5	34900
B05-25T2-1P		9	Tee Weld Joint	FCAW	5		1F	1	4624	12.5	57800
B05-25T2-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	4111.3796	12.5	51392.245
B05-25T3-1S		9	Tee Weld Joint	FCAW	5		1F	1	1914	12.5	23925
B05-25T3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	1092	12.5	13650
B05-25T4-1S		9	Tee Weld Joint	FCAW	5		1F	1	3224	12.5	40300
B05-25T4-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2742.3796	12.5	34279.745
B05-25T4-22S		9	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	160	12.5	2000
									0	0	0
B05-26T1-1P		8	Butt Weld Joint	FCAW	5		3G	3	6852	131.9333	301335.657
			Tee Weld Joint	FCAW	5		3F	1	5114	12.5	63925
B05-26T1-1S		8	Butt Weld Joint	FCAW	5		3G	3	6852	131.9333	301335.657
			Tee Weld Joint	FCAW	5		3F	1	5114	12.5	63925
B05-26T2-1P		7	Butt Weld Joint	FCAW	5		3G	3	8763	131.9333	385377.169
			Tee Weld Joint	FCAW	5		3F	1	17086	12.5	213575
B05-26T2-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2539	12.5	31737.5
B05-26T2-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2539	12.5	31737.5
B05-26T2-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2539	12.5	31737.5
B05-26T2-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2539	12.5	31737.5
B05-26T2-22	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2319	12.5	28987.5
B05-26T2-23P		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-26T2-24P		7	Tee Weld Joint	FCAW	5		2F	1	1430	12.5	17875
B05-26T2-24P		7	Tee Weld Joint	FCAW	5		3F	1	1430	12.5	17875

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
	(mm)	(mm)			Double Continues Weld	Slag Intermitt Weld					
B05-31B1-1P		7	Tee Weld Joint	FCAW	5		3F	1	370	12.5	4625
B05-31T1-1P		9	Tee Weld Joint	FCAW	5		3F	1	5796	12.5	72450
B05-31T1-1S		9	Tee Weld Joint	FCAW	5		3F	1	5796	12.5	72450
B05-31T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5406.5706	12.5	67582.1325
B05-31T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5406.5706	12.5	67582.1325
B05-31T1-2P		7	Tee Weld Joint	FCAW	5		3F	1	800	12.5	10000
B05-31T1-2S		7	Butt Weld Joint	FCAW	5		3F	3	1200	131.9333	52773.32
B05-31T2-1P		9	Tee Weld Joint	FCAW	5		1F	1	3148	12.5	39350
B05-31T2-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2568	12.5	32100
B05-31T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	1572	12.5	19650
B05-31T3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	792	12.5	9900
B05-31T4-1S		9	Tee Weld Joint	FCAW	5		1F	1	3574	12.5	44675
B05-31T4-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2792	12.5	34900
B05-31T5-1P		9	Tee Weld Joint	FCAW	5		1F	1	3028	12.5	37850
B05-31T5-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2538	12.5	31725
									0		0
B05-32B1-1P		9	Lapped Weld Joint	SMAW	5		2F	1	844	12.5	10550
			Tee Weld Joint	FCAW	5		3F	1	1276	12.5	15950
B05-32B2-1S		9	Lapped Weld Joint	SMAW	5		2F	1	430	12.5	5375
			Tee Weld Joint	FCAW	5		3F	1	1610	12.5	20125
									0		0
B05-33T1-1P		9	Tee Weld Joint	FCAW	5		3F	1	5796	12.5	72450
B05-33T1-1S		9	Tee Weld Joint	FCAW	5		3F	1	5796	12.5	72450
B05-33T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5406.5706	12.5	67582.1325
B05-33T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5406.5706	12.5	67582.1325
B05-33T1-2P		7	Butt Weld Joint	FCAW	5		3F	3	1200	131.9333	52773.32
B05-33T1-2S		7	Butt Weld Joint	FCAW	5		3F	3	1200	131.9333	52773.32
B05-33T2-1P		9	Tee Weld Joint	FCAW	5		1F	1	6072	12.5	75900
B05-33T2-21	FB	100*8.0	Tee Weld Joint	FCAW	5		1F	1	5528	12.5	69100
B05-33T5-1S		9	Tee Weld Joint	FCAW	5		1F	1	3534	12.5	44175
B05-33T5-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2792	12.5	34900
B05-33T6-1S		9	Tee Weld Joint	FCAW	5		1F	1	3008	12.5	37600
B05-33T6-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2538	12.5	31725
B05-33XT1-1S		7	Tee Weld Joint	FCAW	5		3F	1	16214	12.5	202675
B05-33XT1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2544	12.5	31800
B05-33XT1-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2325	12.5	29062.5
B05-33XT2-1S		7	Butt Weld Joint	FCAW	5		3F	3	7782	131.9333	342234.98
									0		0
B05-34B1-1S		9	Lapped Weld Joint	SMAW	5		2F	1	430	12.5	5375
			Tee Weld Joint	FCAW	5		3F	1	1610	12.5	20125
B05-34T1-1P		8	Butt Weld Joint	FCAW	5		2G	6	13686	131.9333	300939.857
			Tee Weld Joint	FCAW	5		3F	1	4728	12.5	59100
B05-34T2-1P		7	Tee Weld Joint	FCAW	5		3F	1	12964	12.5	162050
B05-34T2-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2320	12.5	29000
B05-34T2-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2539	12.5	31737.5
B05-34T2-23	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2070	12.5	25875
B05-34T2-24	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	463	12.5	5787.5
B05-34T2-24	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	463	12.5	5787.5
B05-34T2-25	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1187	12.5	14837.5
B05-34T2-26P		7	Tee Weld Joint	FCAW	5		2F	1	640	12.5	8000
B05-34T2-26P		7	Tee Weld Joint	FCAW	5		3F	1	640	12.5	8000
B05-34T2-26P		7	Tee Weld Joint	FCAW	5		2F	1	640	12.5	8000
B05-34T2-26P		7	Tee Weld Joint	FCAW	5		3F	1	640	12.5	8000
B05-34T2-2P		7	Butt Weld Joint	FCAW	5		2G	6	11400	131.9333	250673.27
									0		0
B05-35T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	3400	12.5	42500
B05-35T1-1S		9	Tee Weld Joint	FCAW	5		1F	1	3400	12.5	42500
B05-35T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2610	12.5	32625
B05-35T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2610	12.5	32625
B05-35T2-1S		9	Tee Weld Joint	FCAW	5		1F	1	4624	12.5	57800
B05-35T2-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	4111.3796	12.5	51392.245
B05-35T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	5028	12.5	62850
B05-35T3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	4568	12.5	57100
B05-35T4-1S		9	Tee Weld Joint	FCAW	5		3F	1	5796	12.5	72450
B05-35T4-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5406.5706	12.5	67582.1325
B05-35T4-2S		7	Butt Joint Weld	FCAW	5		2G	6	2400	131.9333	52773.32
									0		0
B05-36B1-1S		9	Lapped Joint Weld	SMAW	5		2F	1	844	12.5	10550
			Tee Joint Weld	FCAW	5		3F	1	1276	12.5	15950
B05-36T1-1P		8	Butt Joint Weld	FCAW	5		3G	3	6843	131.9333	300939.857
			Tee Joint Weld	FCAW	5		3F	1	4728	12.5	59100
B05-36T2-1P		7	Tee Joint Weld	FCAW	5		3F	1	8844	12.5	110550
B05-36T2-21	L	75*75*6.0	Tee Joint Weld	FCAW		5	3F	1	2320	12.5	29000
B05-36T2-22	L	75*75*6.0	Tee Joint Weld	FCAW		5	3F	1	2539	12.5	31737.5
B05-37T1-1P		9	Tee Joint Weld	FCAW	5		3F	1	5796	12.5	72450
B05-37T1-2P		7	Tee Joint Weld	FCAW	5		3F	1	5796	12.5	72450
B05-37T1-1S		9	Butt Joint Weld	FCAW	5		2G	6	2400	131.9333	52773.32
B05-37T1-2S		7	Butt Joint Weld	FCAW	5		2G	6	2400	131.9333	52773.32
B05-37T1-21	FB	100*8.0	Tee Joint Weld	FCAW	5		3F	1	5406.5706	12.5	67582.1325
B05-37T1-21	FB	100*8.0	Tee Joint Weld	FCAW	5		3F	1	5406.5706	12.5	67582.1325
B05-37T2-1P		9	Tee Joint Weld	FCAW	5		1F	1	4624	12.5	57800
B05-37T2-1S		9	Tee Joint Weld	FCAW	5		1F	1	4624	12.5	57800
B05-37T2-21	FB	100*8.0	Tee Joint Weld	FCAW	5		2F	1	4111.3796	12.5	51392.245
B05-37T2-21	FB	100*8.0	Tee Joint Weld	FCAW	5		2F	1	4111.3796	12.5	51392.245
B05-37T3-1P		9	Tee Joint Weld	FCAW	5		1F	1	3400	12.5	42500
B05-37T3-1S		9	Tee Joint Weld	FCAW	5		1F	1	3400	12.5	42500
B05-37T3-21	FB	100*8.0	Tee Joint Weld	FCAW	5		2F	1	2610	12.5	32625
B05-37T3-21	FB	100*8.0	Tee Joint Weld	FCAW	5		2F	1	2610	12.5	32625
									0		0
B05-38B1-1P		9	Lapped Weld Joint	SMAW	5		2F	1	844	12.5	10550

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermitt Weld					
B05-38B1-1S		9	Tee Weld Joint	FCAW	5		3F	1	1276	12.5	15950
			Lapped Weld Joint	SMAW	5		2F	1	844	12.5	10550
			Tee Weld Joint	FCAW	5		3F	1	1276	12.5	15950
									0		0
B05-39T1-1P		9	Tee Weld Joint	FCAW	5		3F	1	5796	12.5	72450
B05-39T1-1S		9	Tee Weld Joint	FCAW	5		3F	1	5796	12.5	72450
B05-39T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5406.5706	12.5	67582.1325
B05-39T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5406.5706	12.5	67582.1325
B05-39T1-2P		7	Butt Joint Weld	FCAW	5		3G	3	1200	131.9333	52773.32
B05-39T1-2S		7	Butt Joint Weld	FCAW	5		3G	3	1200	131.9333	52773.32
B05-39T2-1P		9	Tee Weld Joint	FCAW	5		1F	1	4624	12.5	57800
B05-39T2-1S		9	Tee Weld Joint	FCAW	5		1F	1	4624	12.5	57800
B05-39T2-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	4111.3796	12.5	51392.245
B05-39T2-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	4111.3796	12.5	51392.245
B05-39T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	3400	12.5	42500
B05-39T3-1S		9	Tee Weld Joint	FCAW	5		1F	1	3400	12.5	42500
B05-39T3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2610	12.5	32625
B05-39T3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2610	12.5	32625
									0		0
B05-3LB1-1P		7	Tee Weld Joint	FCAW	5		1F	1	1630	12.5	20375
B05-3LB1-1S		7	Tee Weld Joint	FCAW	5		1F	1	1630	12.5	20375
B05-3LB2-1P		7	Tee Weld Joint	FCAW	5		2F	1	1380	12.5	17250
B05-3LB2-1S		7	Tee Weld Joint	FCAW	5		2F	1	1380	12.5	17250
B05-3LB3-1P		7	Tee Weld Joint	FCAW	5		3F	1	1380	12.5	17250
			Lapped Weld Joint	SMAW	5		3F	1	204	12.5	2550
B05-3LB3-1S		7	Tee Weld Joint	FCAW	5		3F	1	1380	12.5	17250
			Lapped Weld Joint	SMAW	5		3F	1	204	12.5	2550
B05-35G1-1P		8	Tee Weld Joint	FCAW	5		2F	1	3320	12.5	41500
B05-35G1-1S		8	Tee Weld Joint	FCAW	5		2F	1	3320	12.5	41500
B05-35G1-21	RBAR	16	Tee Weld Joint	FCAW	5		6F	1	2352.4328	12.5	29405.41
B05-35G1-21	RBAR	16	Tee Weld Joint	FCAW	5		6F	1	2352.4328	12.5	29405.41
B05-35G1-22	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2200	12.5	27500
B05-35G1-22	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2200	12.5	27500
B05-35G2-1P		8	Tee Weld Joint	FCAW	5		2F	1	3280	12.5	41000
B05-35G2-21	FB	75*6.0	Tee Weld Joint	FCAW	5		2F	1	2200	12.5	27500
									0		0
B05-40B1-1P		9	Lapped Weld Joint	SMAW	5		2F	1	430	12.5	5375
			Tee Weld Joint	FCAW	5		3F	1	1610	12.5	20125
B05-40B1-1S		9	Lapped Weld Joint	SMAW	5		2F	1	430	12.5	5375
			Tee Weld Joint	FCAW	5		3F	1	1610	12.5	20125
									0		0
B05-41T1-1P		9	Tee Weld Joint	FCAW	5		3F	1	5796	12.5	72450
B05-41T1-1S		9	Tee Weld Joint	FCAW	5		3F	1	5796	12.5	72450
B05-41T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5406.5706	12.5	67582.1325
B05-41T1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	5406.5706	12.5	67582.1325
B05-41T1-2P		7	Butt Weld Joint	FCAW	5		2G	6	2400	131.9333	52773.32
B05-41T1-2S		7	Butt Weld Joint	FCAW	5		2G	6	2400	131.9333	52773.32
B05-41T2-1P		9	Tee Weld Joint	FCAW	5		1F	1	4624	12.5	57800
B05-41T2-1S		9	Tee Weld Joint	FCAW	5		1F	1	4624	12.5	57800
B05-41T2-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	4111.3796	12.5	51392.245
B05-41T2-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	4111.3796	12.5	51392.245
B05-41T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	3400	12.5	42500
B05-41T3-1S		9	Tee Weld Joint	FCAW	5		1F	1	3400	12.5	42500
B05-41T3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2610	12.5	32625
B05-41T3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2610	12.5	32625
									0		0
B05-42T1-1C		8	Butt Weld Joint	FCAW	5		3F	3	31254	131.9333	1374481.12
B05-42T1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	2094	12.5	26175
B05-42T1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	2094	12.5	26175
B05-42T1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	2094	12.5	26175
B05-42T1-22	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	2094	12.5	26175
B05-42T1-22	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	2094	12.5	26175
B05-42T1-22	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	2094	12.5	26175
B05-42T1-23	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	2094	12.5	26175
B05-42T1-23	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	2094	12.5	26175
B05-42T1-24	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	2094	12.5	26175
B05-42T1-24	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	2094	12.5	26175
B05-42T1-25	FB	75*6.0	Tee Weld Joint	FCAW	5		2F	1	2188	12.5	27350
B05-42T1-25	FB	75*6.0	Tee Weld Joint	FCAW	5		2F	1	2188	12.5	27350
B05-42T1-25	FB	75*6.0	Tee Weld Joint	FCAW	5		2F	1	2188	12.5	27350
B05-42T1-26	FB	75*6.0	Tee Weld Joint	FCAW	5		3F	1	1100	12.5	13750
B05-42T1-26	FB	75*6.0	Tee Weld Joint	FCAW	5		3F	1	1100	12.5	13750
B05-42T2-1P		8	Corner Weld Joint	FCAW	5		3F	1	2096	12.5	26200
			Butt Weld Joint	FCAW	5		3G	3	2058	131.9333	90506.2438
B05-42T2-1S		8	Corner Weld Joint	FCAW	5		3F	1	2096	12.5	26200
			Butt Weld Joint	FCAW	5		3G	3	2058	131.9333	90506.2438
B05-42T2-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	2094	12.5	26175
B05-42T2-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	2094	12.5	26175
B05-42T3-1C		8	Butt Weld Joint	FCAW	5		3G	3	2814	131.9333	123753.435
			Corner Weld Joint	FCAW	5		3F	1	5180	12.5	64750
B05-42T3-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	636	12.5	7950
B05-42T3-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	636	12.5	7950
B05-42T3-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	636	12.5	7950
B05-42T3-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	636	12.5	7950
B05-42T3-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	636	12.5	7950
B05-42T3-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	636	12.5	7950
B05-42T3-22	FB	75*8.0	Tee Weld Joint	FCAW	5		3F	1	968	12.5	12100

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermitt Weld					
B05-42T3-23	FB	75*8.0	Tee Weld Joint	FCAW	5		3F	1	968	12.5	12100
B05-42T3-24P		9	Tee Weld Joint	FCAW	5		3F	1	908	12.5	11350
B05-42T3-24S		9	Tee Weld Joint	FCAW	5		3F	1	908	12.5	11350
B05-42T4-1P		8	Corner Weld Joint	FCAW	5		3F	1	1612	12.5	20150
B05-42T4-1S		8	Corner Weld Joint	FCAW	5		3F	1	1612	12.5	20150
B05-42T4-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	853	12.5	10662.5
B05-42T4-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	853	12.5	10662.5
											0
B05-5LB1-1P		7	Lapped Weld Joint	SMAW	5		3F	1	250	12.5	3125
			Tee Weld Joint	FCAW	5		2F	1	666	12.5	8325
B05-4LB1-1P		7	Lapped Weld Joint	SMAW	5		3F	1	250	12.5	3125
			Tee Weld Joint	FCAW	5		2F	1	666	12.5	8325
B05-5LB1-1S		7	Lapped Weld Joint	SMAW	5		3F	1	250	12.5	3125
			Tee Weld Joint	FCAW	5		2F	1	666	12.5	8325
B05-4LB1-1S		7	Lapped Weld Joint	SMAW	5		3F	1	250	12.5	3125
			Tee Weld Joint	FCAW	5		2F	1	666	12.5	8325
B05-4LB2-1P		7	Tee Weld Joint	FCAW	5		2F	1	1380	12.5	17250
B05-4LB2-1S		7	Tee Weld Joint	FCAW	5		2F	1	1380	12.5	17250
B05-4LB3-1P		7	Tee Weld Joint	FCAW	5		3F	1	1380	12.5	17250
			Lapped Weld Joint	SMAW	5		3F	1	204	12.5	2550
B05-4LB3-1S		7	Tee Weld Joint	FCAW	5		3F	1	1380	12.5	17250
			Lapped Weld Joint	SMAW	5		3F	1	204	12.5	2550
B05-4LB4-1S		7	Tee Weld Joint	FCAW	5		2F	1	1628	12.5	20350
B05-5L1-1S		7	Tee Weld Joint	FCAW	5		3F	1	3588	12.5	44850
B05-5L1-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	3138	12.5	39225
B05-5L1-22S		7	Tee Weld Joint	FCAW	5		2F	1	400	12.5	5000
B05-6LB1-1P		7	Lapped Weld Joint	SMAW	5		3F	1	250	12.5	3125
			Tee Weld Joint	FCAW	5		2F	1	666	12.5	8325
B05-6LB1-1S		7	Lapped Weld Joint	SMAW	5		3F	1	250	12.5	3125
			Tee Weld Joint	FCAW	5		2F	1	666	12.5	8325
									0	0	0
B05-BRDK1-22	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	1314	12.5	16425
B05-BRDK1-1C		10	Butt Weld Joint	FCAW	6.5		1G	6	67200	131.9333	1477652.96
B05-BRDK1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	2055	12.5	25687.5
B05-BRDK1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	2055	12.5	25687.5
B05-BRDK1-23	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1464	12.5	18300
B05-BRDK1-24	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	3026	12.5	37825
B05-BRDK1-24	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	3026	12.5	37825
B05-BRDK1-25	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1532	12.5	19150
B05-BRDK1-26	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	427	12.5	5337.5
B05-BRDK1-27	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	3027	12.5	37837.5
B05-BRDK1-27	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	3027	12.5	37837.5
B05-BRDK1-27	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	3027	12.5	37837.5
B05-BRDK1-27	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	3027	12.5	37837.5
B05-BRDK1-27	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	3027	12.5	37837.5
B05-BRDK1-28	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	3024	12.5	37800
B05-BRDK1-28	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	3024	12.5	37800
B05-BRDK1-28	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	3024	12.5	37800
B05-BRDK1-29	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1435	12.5	17937.5
B05-BRDK1-29P		7	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	240	12.5	3000
B05-BRDK1-2C		7	Tee Weld Joint	FCAW	5		1G	1	25400	12.5	317500
B05-BRDK1-30	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	8794	12.5	109925
B05-BRDK1-31S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-BRDK1-32	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	440	12.5	5500
B05-BRDK1-32	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	440	12.5	5500
B05-BRDK1-32P		7	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	240	12.5	3000
B05-BRDK1-32S		7	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	240	12.5	3000
B05-BRDK1-33P		7	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	240	12.5	3000
B05-BRDK1-34	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2196	12.5	27450
B05-BRDK1-35	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	854	12.5	10675
B05-BRDK1-36	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	992	12.5	12400
B05-BRDK1-37	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	1340	12.5	16750
B05-BRDK1-38	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	804	12.5	10050
B05-BRDK1-38	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	804	12.5	10050
B05-BRDK1-39	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	992	12.5	12400
B05-BRDK1-3C		10	Butt Weld Joint	FCAW	6.5		1G	6	28800	131.9333	633279.84
B05-BRDK1-40	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	3088	12.5	38600
B05-BRDK1-41	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1614	12.5	20175
B05-BRDK1-42	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2037	12.5	25462.5
B05-BRDK1-43S		7	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	240	12.5	3000
B05-BRDK1-4P		10	Butt Weld Joint	FCAW	6.5		1G	6	12900	131.9333	283656.595
B05-BRDK1-5P		10	Corner Weld Joint	FCAW	6.5		1F	1	10215	21.125	215791.875
B05-BRDK1-6S		10	Lapped Weld Joint	SMAW	6.5		2F	1	2150		0
B05-BRDK1-7S		10	Corner Weld Joint	FCAW	6.5		2F	1	10215	21.125	215791.875
									0		0
B05-CR1-1C		16	Tee Weld Joint	FCAW	10		3F	1	6432	50	321600
B05-CR1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	5712.8602	50	285643.01
B05-CR1-22P		10	Tee Weld Joint	FCAW	6.5		2F	1	830	21.125	17533.75
B05-CR2-1C		9	Tee Weld Joint	FCAW	5		1F	1	3404	12.5	42550
B05-CR2-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2806	12.5	35075
B05-CR2-22P		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR2-22S		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermitt Weld					
B05-CR3-1C		9	Tee Weld Joint	FCAW	5		1F	1	20316	12.5	253950
B05-CR3-21	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	17940	12.5	224250
B05-CR3-23	FB	100*8.0	Tee Weld Joint	FCAW	5		2F	1	2091.0036	12.5	26137.545
B05-CR3-24P		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-24P		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-24P		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-24P		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-24P		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-24P		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-24P		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-24S		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-24S		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-24S		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-24S		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-24S		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-24S		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-24S		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-24S		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-25P		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-25S		7	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-26P		8	Tee Weld Joint	FCAW	5		3F	1	470	12.5	5875
			Lapped Weld Joint	SMAW	5		2F	1	260	12.5	3250
B05-CR3-2C		9	Butt Weld Joint	FCAW	5		3G	3	1410	131.9333	62008.651
B05-CR4-1C		9	Tee Weld Joint	FCAW	5		3F	1	4288	12.5	53600
B05-CR4-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	3962	12.5	49525
											0
B05-FNL10-1P		8	Butt Weld Joint	FCAW	5		3G	3	5325	131.9333	234181.608
B05-FNL10-1S		8	Butt Weld Joint	FCAW	5		3G	3	5325	131.9333	234181.608
B05-FNL10-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1666	12.5	20825
B05-FNL10-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1666	12.5	20825
B05-FNL11-1P		8	Corner Weld Joint	FCAW	5		3F	1	2550	12.5	31875
B05-FNL11-1S		8	Corner Weld Joint	FCAW	5		3F	1	2550	12.5	31875
B05-FNL12-1P		8	Butt Weld Joint	FCAW	5		2G	6	10650	131.9333	234181.608
B05-FNL12-1S		8	Butt Weld Joint	FCAW	5		2G	6	10650	131.9333	234181.608
B05-FNL12-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1666	12.5	20825
B05-FNL12-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1666	12.5	20825
B05-FNL1-1P		8	Butt Weld Joint	FCAW	5		2G	6	39012	131.9333	857830.317
B05-FNL1-1S		8	Butt Weld Joint	FCAW	5		2G	6	39012	131.9333	857830.317
B05-FNL1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2956	12.5	36950
B05-FNL1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2956	12.5	36950
B05-FNL1-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3142	12.5	39275
B05-FNL1-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3142	12.5	39275
B05-FNL1-23	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3336	12.5	41700
B05-FNL1-23	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3336	12.5	41700
B05-FNL1-24	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1611	12.5	20137.5
B05-FNL1-24	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1611	12.5	20137.5
B05-FNL1-25	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1554	12.5	19425
B05-FNL1-25	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1554	12.5	19425
B05-FNL1-26	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1561	12.5	19512.5
B05-FNL1-26	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1561	12.5	19512.5
B05-FNL1-27	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1565	12.5	19562.5
B05-FNL1-27	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1565	12.5	19562.5
B05-FNL1-28	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1569	12.5	19612.5
B05-FNL1-28	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1569	12.5	19612.5
B05-FNL1-29	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3149	12.5	39362.5
B05-FNL1-29	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3149	12.5	39362.5
B05-FNL1-2P		8	Corner Weld Joint	FCAW	5		3F	1	1864	12.5	23300
			Butt Weld Joint	FCAW	5		3F	6	21846	131.9333	480369.145
B05-FNL1-2S		8	Corner Weld Joint	FCAW	5		3F	1	1864	12.5	23300
			Butt Weld Joint	FCAW	5		3F	6	21846	131.9333	480369.145
B05-FNL1-30P		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-FNL1-30P		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-FNL1-30P		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-FNL1-30P		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-FNL1-30S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-FNL1-30S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-FNL1-30S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-FNL1-30S		7	Tee Weld Joint	FCAW	5		2F	1	480	131.9333	63327.984
B05-FNL13-1P		8	Corner Weld Joint	FCAW	5		3F	1	1641	12.5	20512.5
B05-FNL13-1S		8	Corner Weld Joint	FCAW	5		3F	1	1641	12.5	20512.5
B05-FNL1-3P		8	Corner Weld Joint	FCAW	5		3G	6	10650	131.9333	234181.608
			Corner Weld Joint	FCAW	5		3F	1	1641	12.5	20512.5
B05-FNL1-3S		8	Butt Weld Joint	FCAW	5		3G	6	10650	131.9333	234181.608
			Corner Weld Joint	FCAW	5		3F	1	1641	12.5	20512.5
B05-FNL2-1P		8	Butt Weld Joint	FCAW	5		2G	6	22200	131.9333	488153.21

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermitt Weld					
B05-SW10-24	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1343	12.5	16787.5
B05-SW10-25	FB	75*6.0	Tee Weld Joint	FCAW	5		3F	1	2188	12.5	27350
B05-SW10-25	FB	75*6.0	Tee Weld Joint	FCAW	5		3F	1	2188	12.5	27350
B05-SW10-25	FB	75*6.0	Tee Weld Joint	FCAW	5		3F	1	2188	12.5	27350
B05-SW10-26	FB	75*6.0	Tee Weld Joint	FCAW	5		3F	1	2182	12.5	27275
B05-SW10-26	FB	75*6.0	Tee Weld Joint	FCAW	5		3F	1	2182	12.5	27275
B05-SW10-27	FB	75*6.0	Tee Weld Joint	FCAW	5		3F	1	1200	12.5	15000
B05-SW10-27	FB	75*6.0	Tee Weld Joint	FCAW	5		3F	1	1200	12.5	15000
B05-SW10-27	FB	75*6.0	Tee Weld Joint	FCAW	5		3F	1	1200	12.5	15000
B05-SW1-15		7	Tee Weld Joint	FCAW	5		2F	1	44966	12.5	562075
B05-SW1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2519	12.5	31487.5
B05-SW1-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2519	12.5	31487.5
B05-SW1-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2519	12.5	31487.5
B05-SW1-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2519	12.5	31487.5
B05-SW1-23	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2311	12.5	28887.5
B05-SW1-23	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2311	12.5	28887.5
B05-SW1-23	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2311	12.5	28887.5
B05-SW1-23	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2311	12.5	28887.5
B05-SW1-24	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2100	12.5	26250
B05-SW1-25	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	236	12.5	2950
B05-SW1-25	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	236	12.5	2950
B05-SW1-26	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	780	12.5	9750
B05-SW1-27	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	413	12.5	5162.5
B05-SW1-27	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	413	12.5	5162.5
B05-SW1-28	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	2194	12.5	27425
B05-SW1-29S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW1-29S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW1-29S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW1-29S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW1-29S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW1-29S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW1-29S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW1-29S		7	Butt Weld Joint	FCAW	5		2G	6	52764	131.9333	1160221.44
B05-SW1-30S		7	Tee Weld Joint	FCAW	5		3F	1	480	12.5	6000
B05-SW1-30S		7	Tee Weld Joint	FCAW	5		3F	1	480	12.5	6000
B05-SW1-30S		7	Tee Weld Joint	FCAW	5		3F	1	480	12.5	6000
B05-SW1-30S		7	Tee Weld Joint	FCAW	5		3F	1	480	12.5	6000
B05-SW1-31S		7	Tee Weld Joint	FCAW	5		3F	1	480	12.5	6000
B05-SW1-31S		7	Tee Weld Joint	FCAW	5		3F	1	480	12.5	6000
B05-SW1-31S		7	Tee Weld Joint	FCAW	5		3F	1	480	12.5	6000
B05-SW1-32	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2100	12.5	26250
B05-SW1-C1S		7	Tee Weld Joint	FCAW	5		2F	1	626.2216	12.5	7827.77
B05-SW1-C1S		7	Tee Weld Joint	FCAW	5		2F	1	626.2216	12.5	7827.77
B05-SW1-C1S		7	Tee Weld Joint	FCAW	5		2F	1	626.2216	12.5	7827.77
B05-SW1-C1S		7	Tee Weld Joint	FCAW	5		2F	1	626.2216	12.5	7827.77
B05-SW1-C1S		7	Tee Weld Joint	FCAW	5		2F	1	626.2216	12.5	7827.77
B05-SW1-C1S		7	Tee Weld Joint	FCAW	5		2F	1	626.2216	12.5	7827.77
B05-SW1-C2S		7	Tee Weld Joint	FCAW	5		3F	1	1388	12.5	17350
B05-SW1-C2S		7	Tee Weld Joint	FCAW	5		3F	1	1388	12.5	17350
B05-SW1-C2S		7	Tee Weld Joint	FCAW	5		3F	1	1388	12.5	17350
B05-SW1-C2S		7	Tee Weld Joint	FCAW	5		3F	1	1388	12.5	17350
B05-SW1-C2S		7	Tee Weld Joint	FCAW	5		3F	1	1388	12.5	17350
B05-SW1-C2S		7	Tee Weld Joint	FCAW	5		3F	1	1388	12.5	17350
B05-SW2-1P		7	Tee Weld Joint	FCAW	5		2F	1	26228	12.5	327850
B05-SW2-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3065	12.5	38312.5
B05-SW2-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3300	12.5	41250
B05-SW2-23	FB	75*8.0	Tee Weld Joint	FCAW	5		3F	1	956	12.5	11950
B05-SW2-24	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3087	12.5	38587.5
B05-SW2-25	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3132	12.5	39150
B05-SW2-26P		7	Tee Weld Joint	FCAW	5		3F	1	480	12.5	6000
B05-SW2-26P		7	Tee Weld Joint	FCAW	5		3F	1	480	12.5	6000
B05-SW2-27P		7	Tee Weld Joint	FCAW	5		3F	1	480	12.5	6000
B05-SW2-28P		7	Tee Weld Joint	FCAW	5		3F	1	480	12.5	6000
B05-SW2-2P		7	Butt Weld Joint	FCAW	5		2G	6	19764	131.9333	434588.29
B05-SW2-C1P		7	Tee Weld Joint	FCAW	5		2F	1	626.2216	12.5	7827.77
B05-SW3-1P		7	Tee Weld Joint	FCAW	5		3F	1	14616	12.5	182700
B05-SW3-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1040	12.5	13000
B05-SW3-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1040	12.5	13000
B05-SW3A-1S		7	Tee Weld Joint	FCAW	5		3F	1	14616	12.5	182700
B05-SW3A-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1040	12.5	13000
B05-SW3A-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1040	12.5	13000
B05-SW3A-23S		7	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	704	12.5	8800
B05-SW3-C1P		7	Tee Weld Joint	FCAW	5		3F	1	1388	12.5	17350
B05-SW4-15		7	Tee Weld Joint	FCAW	5		3F	1	26228	12.5	327850
B05-SW4-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3065	12.5	38312.5
B05-SW4-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3300	12.5	41250
B05-SW4-23	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	478	12.5	5975
B05-SW4-24	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3087	12.5	38587.5
B05-SW4-25	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	3132	12.5	39150
B05-SW4-26	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	1088	12.5	13600
B05-SW4-27S		7	Tee Weld Joint	FCAW	5		3F	1	480	12.5	6000
B05-SW4-27S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW4-27S		7	Tee Weld Joint	FCAW	5		3F	1	480	12.5	6000

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermitt Weld					
B05-SW4-27S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW4-27S		7	Tee Weld Joint	FCAW	5		3F	1	480	12.5	6000
B05-SW4-2S		7	Butt Weld Joint	FCAW	5		2G	6	19764	131.9333	434588.29
B05-SW4-C1S		7	Tee Weld Joint	FCAW	5		3F	1	626.2216	12.5	7827.77
B05-SW5-1P		7	Tee Weld Joint	FCAW	5		1F	1	28012	12.5	350150
B05-SW5-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2311	12.5	28887.5
B05-SW5-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2519	12.5	31487.5
B05-SW5-23	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2336	12.5	29200
B05-SW5-24	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2519	12.5	31487.5
B05-SW5-24	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2519	12.5	31487.5
B05-SW5-25	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2311	12.5	28887.5
B05-SW5-25	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2311	12.5	28887.5
B05-SW5-26P		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW5-26P		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW5-26P		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW5-27P		7	Tee Weld Joint	FCAW	5		3F	1	240	12.5	3000
			Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
B05-SW5-27P		7	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	240	12.5	3000
B05-SW5-27P		7	Lapped Weld Joint	SMAW	5		2F	1	240	12.5	3000
			Tee Weld Joint	FCAW	5		3F	1	240	12.5	3000
B05-SW5-2P		7	Butt Weld Joint	FCAW	5		2G	6	52980	131.9333	1164971.04
B05-SW5-C1P		7	Tee Weld Joint	FCAW	5		3F	1	1388	12.5	17350
B05-SW5-C1P		7	Tee Weld Joint	FCAW	5		3F	1	1388	12.5	17350
B05-SW5-C2P		7	Tee Weld Joint	FCAW	5		3F	1	626.2216	12.5	7827.77
B05-SW5-C2P		7	Tee Weld Joint	FCAW	5		3F	1	626.2216	12.5	7827.77
B05-SW6-1S		7	Tee Weld Joint	FCAW	5		3F	1	16936	12.5	211700
B05-SW6-21	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	4622	12.5	57775
B05-SW6-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2100	12.5	26250
B05-SW6-23	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1550	12.5	19375
B05-SW6-24	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	205	12.5	2562.5
B05-SW6-25	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	413	12.5	5162.5
B05-SW6-26S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW6-27S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW6-28S		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B05-SW6-C1S		7	Tee Weld Joint	FCAW	5		3F	1	1388	12.5	17350
B05-SW6-C2S		7	Tee Weld Joint	FCAW	5		3F	1	626.2216	12.5	7827.77
B05-SW6-C2S		7	Tee Weld Joint	FCAW	5		3F	1	626.2216	12.5	7827.77
B05-SW7-1P		7	Tee Weld Joint	FCAW	5		2F	1	14800	12.5	185000
B05-SW7-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2534	12.5	31675
B05-SW7-22P		7	Lapped Weld Joint	SMAW	5		2F	1	200	12.5	2500
			Tee Weld Joint	FCAW	5		3F	1	240	12.5	3000
B05-SW7-C1P		7	Tee Weld Joint	FCAW	5		2F	1	1388	12.5	17350
B05-SW8-1P		8	Butt Weld Joint	FCAW	5		2F	6	36720	131.9333	807431.796
B05-SW8-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1343	12.5	16787.5
B05-SW8-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2060	12.5	25750
B05-SW8-23	FB	75*6.0	Tee Weld Joint	FCAW	5		3F	1	1200	12.5	15000
B05-SW8-24	FB	75*6.0	Tee Weld Joint	FCAW	5		2F	1	2200	12.5	27500
B05-SW8-24	FB	75*6.0	Tee Weld Joint	FCAW	5		2F	1	2200	12.5	27500
B05-SW8-25	FB	75*6.0	Tee Weld Joint	FCAW	5		2F	1	2182	12.5	27275
B05-SW8-25	FB	75*6.0	Tee Weld Joint	FCAW	5		2F	1	2182	12.5	27275
B05-SW8-26	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1343	12.5	16787.5
B05-SW8-27	FB	75*6.0	Tee Weld Joint	FCAW	5		3F	1	1200	12.5	15000
B05-SW9-1P		8	Corner Weld Joint	FCAW	5		3F	1	4220	12.5	52750
			Tee Weld Joint	FCAW	5		2F	1	5226	12.5	65325
B05-SW9-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	2060	12.5	25750
B05-SW9-22	L	75*75*6.0	Tee Weld Joint	FCAW		5	3F	1	1343	12.5	16787.5
B05-SW9-23	FB	75*6.0	Tee Weld Joint	FCAW	5		2F	1	2188	12.5	27350
B05-SW9-23	FB	75*6.0	Tee Weld Joint	FCAW	5		2F	1	2188	12.5	27350
B05-SW9-24	FB	75*6.0	Tee Weld Joint	FCAW	5		3F	1	1192	12.5	14900
									0		0
B05-TOP1-1P		8	Corner Weld Joint	FCAW	5		2F	1	547	12.5	6837.5
			Butt Weld Joint	FCAW	5		3G	3	1767	131.9333	77708.7137
B05-TOP1-1S		8	Corner Weld Joint	FCAW	5		2F	1	547	12.5	6837.5
			Butt Weld Joint	FCAW	5		3G	6	3534	131.9333	77708.7137
B05-TOP1-2P		8	Butt Weld Joint	FCAW	5		2G	6	11226	131.9333	246847.204
B05-TOP1-2S		8	Butt Weld Joint	FCAW	5		2G	6	11226	131.9333	246847.204
									0		0
B05-TOW10-1P		16	Tee Weld Joint	FCAW	10		3F	1	1660	50	83000
B05-TOW10-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1020	50	51000
B05-TOW11-1P		10	Tee Weld Joint	FCAW	6.5		3F	1	2480	21.125	52390
B05-TOW11-21	FB	100*10.0	Tee Weld Joint	FCAW	6.5		3F	1	1450	21.125	30631.25
B05-TOW12-1S		16	Tee Weld Joint	FCAW	10		3F	1	2100	50	105000
B05-TOW12-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1200	50	60000
B05-TOW2-1P		16	Tee Weld Joint	FCAW	10		3F	1	1660	50	83000
B05-TOW2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1020	50	51000
B05-TOW3-1P		10	Tee Weld Joint	FCAW	6.5		3F	1	2480	21.125	52390
B05-TOW3-21	FB	100*10.0	Tee Weld Joint	FCAW	6.5		3F	1	1450	21.125	30631.25
B05-TOW4-1S		16	Tee Weld Joint	FCAW	10		3F	1	2100	50	105000
B05-TOW4-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1200	50	60000
B05-TOW5-1S		10	Tee Weld Joint	FCAW	6.5		3F	1	1480	21.125	31265
B05-TOW6-1P		16	Tee Weld Joint	FCAW	10		3F	1	1660	50	83000
B05-TOW6-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1020	50	51000
B05-TOW7-1P		10	Tee Weld Joint	FCAW	6.5		3F	1	2480	21.125	52390
B05-TOW7-21	FB	100*10.0	Tee Weld Joint	FCAW	6.5		3F	1	1450	21.125	30631.25
B05-TOW8-1S		16	Tee Weld Joint	FCAW	10		3F	1	2100	50	105000
B05-TOW8-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1200	50	60000
B05-TOW9-1S		10	Tee Weld Joint	FCAW	6.5		3F	1	1480	21.125	31265
B05-TOW13-1S		10	Tee Weld Joint	FCAW	6.5		3F	1	1480	21.125	31265

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermitt Weld					
									0		0
B05-TPFNL-1P		8	Corner Weld Joint	FCAW	5		3F	1	8099.771	12.5	101247.138
B05-TPFNL-1S		8	Corner Weld Joint	FCAW	5		3F	1	8099.771	12.5	101247.138
B05-TPFNL-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1460	12.5	18250
B05-TPFNL-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1460	12.5	18250
B05-TPFNL-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1460	12.5	18250
B05-TPFNL-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1460	12.5	18250
B05-TPFNL-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1460	12.5	18250
B05-TPFNL-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1460	12.5	18250
B05-TPFNL-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1460	12.5	18250
B05-TPFNL-22P		7	Tee Weld Joint	FCAW	5		2F	1	720	12.5	9000
B05-TPFNL-22P		7	Tee Weld Joint	FCAW	5		3F	1	720	12.5	9000
B05-TPFNL-22P		7	Tee Weld Joint	FCAW	5		2F	1	720	12.5	9000
B05-TPFNL-22S		7	Tee Weld Joint	FCAW	5		3F	1	720	12.5	9000
B05-TPFNL-22S		7	Tee Weld Joint	FCAW	5		2F	1	720	12.5	9000
B05-TPFNL-22S		7	Tee Weld Joint	FCAW	5		3F	1	720	12.5	9000
											0
											0
ERECTION			Tee Weld Joint	FCAW	5		1F		39400	12.5	492500
			Tee Weld Joint	FCAW	5		1F		12402	12.5	155025
			Tee Weld Joint	FCAW	5		1F		2828	12.5	35350
			Tee Weld Joint	FCAW	5		1F		9400	12.5	117500
			Tee Weld Joint	FCAW	5		1F		3860	12.5	48250
			Tee Weld Joint	FCAW	5		1F		5020	12.5	62750
			Tee Weld Joint	FCAW	5		1F		15000	12.5	187500
			Tee Weld Joint	FCAW	5		1F		8200	12.5	102500
			Butt Weld Joint	FCAW	5		4F	6	43200	131.9333	5699518.56
											0
											0
			Tee Weld Joint	SMAW	5		1F	1	2000	12.5	25000

ASSEMBLY PART LIST BLOCK B06											
HARBOR TUG 2x2200 HP PT.DUMAS											
Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermit Weld					
B06-26T1-1C		8	Corner Weld Joint	FCAW	5		2F	1	3790	12.5	47375
B06-26T2-1P		8	Corner Weld Joint	FCAW	5		2F	1	1263	12.5	15787.5
B06-26T2-1S		8	Corner Weld Joint	FCAW	5		3F	1	1263	12.5	15787.5
B06-26T2-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1294	12.5	16175
B06-26T2-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1294	12.5	16175
B06-26T2-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1294	12.5	16175
B06-26T2-22	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1081	12.5	13512.5
B06-27T1-1P		7	Tee Weld Joint	FCAW	5		1F	1	2406	12.5	30075
B06-27T1-1S		7	Tee Weld Joint	FCAW	5		1F	1	2406	12.5	30075
B06-27T1-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	1378	12.5	17225
B06-27T1-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	1378	12.5	17225
B06-27T2-1S		7	Tee Weld Joint	FCAW	5		1F	1	1938	12.5	24225
B06-27T2-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	1690	12.5	21125
B06-27T3-1S		7	Tee Weld Joint	FCAW	5		3F	1	2392	12.5	29900
B06-27T3-21	FB	50*6.0	Tee Weld Joint	FCAW	5		3F	1	2152	12.5	26900
B06-27T3-22S		7	Tee Weld Joint	FCAW	5		2F	1	660	12.5	8250
B06-27T4-1P		7	Tee Weld Joint	FCAW	5		3F	1	2848	12.5	35600
B06-27T4-21	FB	50*6.0	Tee Weld Joint	FCAW	5		2F	1	2568	12.5	32100
B06-28B1-1P		7	Tee Weld Joint	FCAW	5		3F	1	2602	12.5	32525
B06-28B1-1S		7	Tee Weld Joint	FCAW	5		3F	1	2602	12.5	32525
B06-29T1-1P		7	Tee Weld Joint	FCAW	5		1F	1	3078	12.5	38475
B06-29T1-1S		7	Tee Weld Joint	FCAW	5		1F	1	3078	12.5	38475
B06-29T1-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2016	12.5	25200
B06-29T1-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2016	12.5	25200
B06-29T2-1S		7	Tee Weld Joint	FCAW	5		1F	1	2358	12.5	29475
B06-29T2-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	1690	12.5	21125
B06-29T3-1S		7	Tee Weld Joint	FCAW	5		3F	1	2412	12.5	30150
B06-29T3-21	FB	50*6.0	Tee Weld Joint	FCAW	5		3F	1	2152	12.5	26900
B06-29T3-22S		7	Tee Weld Joint	FCAW	5		2F	1	660	12.5	8250
B06-29T4-1P		7	Tee Weld Joint	FCAW	5		3F	1	2848	12.5	35600
B06-29T4-21	FB	50*6.0	Tee Weld Joint	FCAW	5		2F	1	2568	12.5	32100
B06-30B1-1P		7	Tee Weld Joint	FCAW	5		3F	1	2394	12.5	29925
B06-30B1-1S		7	Tee Weld Joint	FCAW	5		3F	1	2394	12.5	29925
B06-30T1-1P		7	Tee Weld Joint	FCAW	5		3F	1	9372	12.5	117150
B06-30T1-1S		7	Tee Weld Joint	FCAW	5		3F	1	9372	12.5	117150
B06-31T1-1P		7	Tee Weld Joint	FCAW	5		1F	1	5042	12.5	63025
B06-31T1-1S		7	Tee Weld Joint	FCAW	5		1F	1	5042	12.5	63025
B06-31T1-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	3649.9126	12.5	45623.9075
B06-31T1-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	3649.9126	12.5	45623.9075
B06-31T2-1P		7	Tee Weld Joint	FCAW	5		2F	1	3502	12.5	43775
B06-31T2-1S		7	Tee Weld Joint	FCAW	5		2F	1	3502	12.5	43775
B06-31T2-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2854	12.5	35675
B06-31T2-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2854	12.5	35675
B06-31T3-1P		7	Tee Weld Joint	FCAW	5		3F	1	2432	12.5	30400
B06-31T3-1S		7	Tee Weld Joint	FCAW	5		3F	1	2432	12.5	30400
B06-31T3-21	FB	50*6.0	Tee Weld Joint	FCAW	5		3F	1	2152	12.5	26900
B06-31T3-21	FB	50*6.0	Tee Weld Joint	FCAW	5		3F	1	2152	12.5	26900
B06-31T3-22P		7	Tee Weld Joint	FCAW	5		2F	1	660	12.5	8250
B06-31T3-22S		7	Tee Weld Joint	FCAW	5		3F	1	660	12.5	8250
B06-32B1-1P		7	Tee Weld Joint	FCAW	5		3F	1	2394	12.5	29925
B06-32B1-1S		7	Tee Weld Joint	FCAW	5		3F	1	2394	12.5	29925
B06-32T1-1P		7	Tee Weld Joint	FCAW	5		3F	1	9372	12.5	117150
B06-32T1-1S		7	Tee Weld Joint	FCAW	5		3F	1	9372	12.5	117150
B06-33T1-1P		7	Tee Weld Joint	FCAW	5		1F	1	5042	12.5	63025
B06-33T1-1S		7	Tee Weld Joint	FCAW	5		1F	1	5042	12.5	63025
B06-33T1-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	3649.9126	12.5	45623.9075
B06-33T1-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	3649.9126	12.5	45623.9075
B06-33T2-1P		7	Tee Weld Joint	FCAW	5		2F	1	3502	12.5	43775
B06-33T2-1S		7	Tee Weld Joint	FCAW	5		2F	1	3502	12.5	43775
B06-33T2-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2854	12.5	35675
B06-33T2-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2854	12.5	35675
B06-33T3-1P		7	Tee Weld Joint	FCAW	5		3F	1	2432	12.5	30400
B06-33T3-1S		7	Tee Weld Joint	FCAW	5		3F	1	2432	12.5	30400
B06-33T3-21	FB	50*6.0	Tee Weld Joint	FCAW	5		3F	1	2152	12.5	26900
B06-34B1-1P		7	Tee Weld Joint	FCAW	5		3F	1	2602	12.5	32525
B06-34B1-1S		7	Tee Weld Joint	FCAW	5		3F	1	2602	12.5	32525
B06-35COLL-1C		7	Tee Weld Joint	FCAW	5		3F	1	800	12.5	10000
B06-35T1-1P		7	Tee Weld Joint	FCAW	5		1F	1	1453.239	12.5	18165.4875
B06-35T1-1S		7	Tee Weld Joint	FCAW	5		1F	1	2462	12.5	30775
B06-35T1-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2462	12.5	30775
B06-35T1-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	1378	12.5	17225
B06-35T2-1C		7	Tee Weld Joint	FCAW	5		2F	1	1378	12.5	17225
B06-35T2-1C		7	Tee Weld Joint	FCAW	5		2F	1	16808	12.5	210100
B06-35T2-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1136	12.5	14200
B06-35T2-22	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1284	12.5	16050
B06-35T2-22	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1284	12.5	16050
B06-35T2-22	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1284	12.5	16050
B06-35T2-22	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1284	12.5	16050
B06-35T2-23C		7	Tee Weld Joint	FCAW	5		2F	1	480	12.5	6000
B06-CH2A-1C		7	Tee Weld Joint	FCAW	5		2F	1	6130	12.5	76625
B06-CH2B-1P		7	Tee Weld Joint	FCAW	5		2F	1	3452	12.5	43150
B06-CH2B-1S		7	Tee Weld Joint	FCAW	5		2F	1	3452	12.5	43150
B06-CH2C-1P		7	Tee Weld Joint	FCAW	5		2F	1	3494	12.5	43675
B06-CH2C-1S		7	Tee Weld Joint	FCAW	5		2F	1	3494	12.5	43675
B06-CH2D-1C		7	Tee Weld Joint	FCAW	5		2F	1	6130	12.5	76625
B06-CHL1-1C		7	Tee Weld Joint	FCAW	5		2F	1	7598	12.5	94975
B06-CHL1A-1P		7	Tee Weld Joint	FCAW	5		2F	1	4874	12.5	60925
B06-CHL1A-1S		7	Tee Weld Joint	FCAW	5		2F	1	4874	12.5	60925
B06-CHL1C-1P		7	Tee Weld Joint	FCAW	5		2F	1	4866	12.5	60825
B06-CHL1C-1S		7	Tee Weld Joint	FCAW	5		2F	1	4866	12.5	60825
B06-CHL1D-1C		7	Tee Weld Joint	FCAW	5		2F	1	7598	12.5	94975
B06-CR1-1C		7	Tee Weld Joint	FCAW	5		1F	1	11170	12.5	139625
B06-CR1-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	10871.7156	12.5	135896.445
B06-CR1-22P		7	Lapped Weld Joint	SMAW	5		2F	1	300	12.5	3750
B06-CR1-22P		7	Lapped Weld Joint	SMAW	5		3F	1	250	12.5	3125
B06-CR1-22P		7	Lapped Weld Joint	SMAW	5		2F	1	300	12.5	3750

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
	(mm)				Double Continues Weld	Slag Intermit Weld					
B06-CR1-22P		7	Tee Weld Joint	FCAW	5		3F	1	250	12.5	3125
B06-CR1-22P		7	Lapped Weld Joint	SMAW	5		2F	1	300	12.5	3750
B06-CR1-22P		7	Tee Weld Joint	FCAW	5		3F	1	250	12.5	3125
B06-CR1-22P		7	Lapped Weld Joint	SMAW	5		2F	1	300	12.5	3750
B06-CR1-22S		7	Tee Weld Joint	FCAW	5		3F	1	250	12.5	3125
B06-CR1-22S		7	Lapped Weld Joint	SMAW	5		2F	1	300	12.5	3750
B06-CR1-22S		7	Tee Weld Joint	FCAW	5		3F	1	250	12.5	3125
B06-CR1-22S		7	Lapped Weld Joint	SMAW	5		2F	1	300	12.5	3750
B06-CR1-22S		7	Tee Weld Joint	FCAW	5		3F	1	250	12.5	3125
B06-CR1-22S		7	Lapped Weld Joint	SMAW	5		2F	1	300	12.5	3750
B06-CR1-22S		7	Tee Weld Joint	FCAW	5		3F	1	250	12.5	3125
B06-CR1-22S		7	Lapped Weld Joint	SMAW	5		2F	1	300	12.5	3750
B06-CR2-1C		7	Tee Weld Joint	FCAW	5		3F	1	250	12.5	3125
B06-CR2-1C		7	Tee Weld Joint	FCAW	5		1F	1	6890	12.5	86125
B06-CR2-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	6018	12.5	75225
B06-CR2-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	6018	12.5	75225
B06-CR2-22P		7	Tee Weld Joint	FCAW	5		2F	1	490	12.5	6125
B06-CR2-22P		7	Tee Weld Joint	FCAW	5		3F	1	490	12.5	6125
B06-CR2-22S		7	Tee Weld Joint	FCAW	5		2F	1	490	12.5	6125
B06-CR2-22S		7	Tee Weld Joint	FCAW	5		3F	1	490	12.5	6125
B06-CR3-1C		7	Tee Weld Joint	FCAW	5		3F	1	3722	12.5	46525
B06-CR3-21	FB	75*8.0	Tee Weld Joint	FCAW	5		3F	1	3234.1026	12.5	40426.2825
B06-CR3-22S		7	Tee Weld Joint	FCAW	5		2F	1	680	12.5	8500
B06-CR3-2C		7	Tee Weld Joint	FCAW	5		3F	1	370	12.5	4625
B06-CR4-1C		7	Tee Weld Joint	FCAW	5		3F	1	3050	12.5	38125
B06-CR4-21	FB	75*8.0	Tee Weld Joint	FCAW	5		3F	1	2144	12.5	26800
B06-LN1-1C		7	Tee Weld Joint	FCAW	5		2F	1	6000	12.5	75000
B06-LN1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2490	12.5	31125
B06-LN1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2490	12.5	31125
B06-LN1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2490	12.5	31125
B06-LN1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2490	12.5	31125
B06-LN1-22	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2490	12.5	31125
B06-LN1-23	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	2490	12.5	31125
B06-LN1-24S		7	Tee Weld Joint	FCAW	5		2F	1	550	12.5	6875
B06-SLA1-1P		8	Tee Weld Joint	FCAW	5		3F	1	15542	12.5	194275
B06-SLA1-1S		8	Tee Weld Joint	FCAW	5		3F	1	15542	12.5	194275
B06-SLA1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1233	12.5	15412.5
B06-SLA1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1233	12.5	15412.5
B06-SLA1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1233	12.5	15412.5
B06-SLA1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1233	12.5	15412.5
B06-SLA1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1233	12.5	15412.5
B06-SLA1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1233	12.5	15412.5
B06-SLA1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1233	12.5	15412.5
B06-SLA1-22	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1338	12.5	16725
B06-SLA1-23P		7	Tee Weld Joint	FCAW	5		2F	1	550	12.5	6875
B06-SLA1-23P		7	Tee Weld Joint	FCAW	5		2F	1	550	12.5	6875
B06-SLA1-23P		7	Tee Weld Joint	FCAW	5		2F	1	550	12.5	6875
B06-SLA1-23S		7	Tee Weld Joint	FCAW	5		2F	1	550	12.5	6875
B06-SLA1-23S		7	Tee Weld Joint	FCAW	5		2F	1	550	12.5	6875
B06-SLA1-23S		7	Tee Weld Joint	FCAW	5		2F	1	550	12.5	6875
B06-SLA1-23S		7	Tee Weld Joint	FCAW	5		2F	1	550	12.5	6875
B06-SLA1-24	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	744	12.5	9300
B06-SLA1-24	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	744	12.5	9300
B06-SLA2-1P		8	Tee Weld Joint	FCAW	5		3F	1	1550	12.5	19375
B06-SLA2-1S		8	Tee Weld Joint	FCAW	5		3F	1	1550	12.5	19375
B06-SLA3-1C		8	Tee Weld Joint	FCAW	5		3F	1	3196	12.5	39950
B06-SLT1-1C		8	Butt Weld Joint	FCAW	5		2G	6	15096	242.1566239	609266.0658
B06-SLT1-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2050	12.5	25625
B06-SLT2-1P		8	Butt Weld Joint	FCAW	5		3G	3	462	242.1566239	37292.12009
B06-SLT2-1S		8	Butt Weld Joint	FCAW	5		3G	3	3420	242.1566239	276058.5513
B06-SLT2-1S		8	Butt Weld Joint	FCAW	5		3G	3	3420	242.1566239	276058.5513
B06-SLT2-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2180	12.5	27250
B06-SLT2-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2180	12.5	27250
B06-SLT3-1P		8	Butt Weld Joint	FCAW	5		3G	3	45312	242.1566239	3657533.648
B06-SLT3-1S		8	Butt Weld Joint	FCAW	5		3G	3	45312	242.1566239	3657533.648
B06-SLT3-21	FB	100*10.0	Tee Weld Joint	FCAW	5		2F	1	3628	12.5	45350
B06-SLT3-21	FB	100*10.0	Tee Weld Joint	FCAW	5		2F	1	3628	12.5	45350
B06-SLT3-22	FB	100*10.0	Tee Weld Joint	FCAW	5		2F	1	3628	12.5	45350
B06-SLT3-22	FB	100*10.0	Tee Weld Joint	FCAW	5		2F	1	3628	12.5	45350
B06-SLT4-1P		8	Butt Weld Joint	FCAW	5		2G	6	6840	242.1566239	276058.5513
B06-SLT4-1S		8	Butt Weld Joint	FCAW	5		2G	6	6840	242.1566239	276058.5513
B06-SLT4-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2180	12.5	27250
B06-SLT4-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2180	12.5	27250
B06-SLT5-1C		8	Butt Weld Joint	FCAW	5		3G	3	7548	242.1566239	609266.0658
B06-SLT5-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	2050	12.5	25625
B06-SLT6-1P		8	Butt Weld Joint	FCAW	5		3G	3	26271	242.1566239	2120565.556
B06-SLT6-1S		8	Butt Weld Joint	FCAW	5		3G	3	26271	242.1566239	2120565.556
B06-SLW1-1C		8	Butt Weld Joint	FCAW	5		3G	3	8685	242.1566239	701043.4263
B06-SLW2-1P		8	Butt Weld Joint	FCAW	5		3G	3	14367	242.1566239	1159688.072
B06-SLW2-1S		8	Butt Weld Joint	FCAW	5		3G	3	14367	242.1566239	1159688.072
B06-SLW3-1C		8	Butt Weld Joint	FCAW	5		3G	3	8685	242.1566239	701043.4263
B06-SLW4-1P		8	Butt Weld Joint	FCAW	5		3G	3	14367	242.1566239	1159688.072
B06-SLW4-1S		8	Butt Weld Joint	FCAW	5		3G	3	14367	242.1566239	1159688.072
B06-SLW5-1P		8	Butt Weld Joint	FCAW	5		3G	3	14001	242.1566239	1130144.964
B06-SLW5-1S		8	Butt Weld Joint	FCAW	5		3G	3	14001	242.1566239	1130144.964
B06-SLW5-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1265	12.5	15812.5
B06-SLW5-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1265	12.5	15812.5
B06-SLW5-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1265	12.5	15812.5
B06-SLW5-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1265	12.5	15812.5
B06-SLW6-1C		8	Butt Weld Joint	FCAW	5		3G	3	11364	242.1566239	917289.2915
B06-SLW7-1P		8	Butt Weld Joint	FCAW	5		3G	3	14001	242.1566239	1130144.964
B06-SLW7-1S		8	Butt Weld Joint	FCAW	5		3G	3	14001	242.1566239	1130144.964
B06-SLW7-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1265	12.5	15812.5
B06-SLW7-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1265	12.5	15812.5
B06-SLW7-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1265	12.5	15812.5
B06-SLW7-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	3F	1	1265	12.5	15812.5
B06-SLW8-1C		8	Butt Weld Joint	FCAW	5		3G	3	11364	242.1566239	917289.2915
B06-SSA1-1S		7	Tee Weld Joint	FCAW	5		1F	1	4930	12.5	61625
B06-SSA1-21	FB	75*8.0	Tee Weld Joint	FCAW	5		1F	1	4100	12.5	51250
B06-SSA1-22S		7	Tee Weld Joint	FCAW	5		2F	1	680	12.5	8500
B06-SSA1-22S		7	Tee Weld Joint	FCAW	5		2F	1	680	12.5	8500
B06-TOPDK1-1C		10	Corner Weld Joint	FCAW	6.5		2F	1	11306	242.1566239	2737822.79
B06-TOPDK1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	1F	1	1380	12.5	17250
B06-TOPDK1-21	L	75*75*6.0	Tee Weld Joint	FCAW	5	5	1F	1	1380	12.5	17250

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermit Weld					
B06-TOPDK1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1380	12.5	17250
B06-TOPDK1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1380	12.5	17250
B06-TOPDK1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1380	12.5	17250
B06-TOPDK1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1380	12.5	17250
B06-TOPDK1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1380	12.5	17250
B06-TOPDK1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1380	12.5	17250
B06-TOPDK1-21	L	75*75*6.0	Tee Weld Joint	FCAW		5	1F	1	1380	12.5	17250
B06-TOPDK1-2C		10	Butt Weld Joint	FCAW	6.5		1G	6	17316	242.1566239	698864.0167
B06-TOPDK1-3C		10	Butt Weld Joint	FCAW	6.5		1G	6	17316	242.1566239	698864.0167
											0
											0
ERECTION			Tee Weld Joint	FCAW	5		1F		21428	12.5	267850
			Tee Weld Joint	FCAW	5		1F		4452	12.5	55650
			Tee Weld Joint	FCAW	5		1F		1994	12.5	24925
			Tee Weld Joint	FCAW	5		1F		4452	12.5	55650
			Tee Weld Joint	FCAW	5		1F		1994	12.5	24925
											0
											0
			Tee Weld Joint	SMAW	5		1F	1	2000	12.5	25000

ASSEMBLY PART LIST BLOCK B07											
HARBOUR TUG 2x2200 HP PT.DUMAS											
Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermit Weld					
B07-19T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	1548	21.125	32701.5
B07-19T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	1284	12.5	16050
B07-19T2-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	1548	21.125	32701.5
B07-19T2-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	1284	12.5	16050
										0	0
B07-20T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	1664	21.125	35152
B07-20T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	834	12.5	10425
										0	0
B07-21T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2102	21.125	44404.75
B07-21T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	824	12.5	10300
										0	0
B07-22T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2370	21.125	50066.25
B07-22T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	768	12.5	9600
										0	0
B07-23T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-23T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	940	12.5	11750
B07-24T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-24T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	942	12.5	11775
B07-25T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-25T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	944	12.5	11800
B07-26T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-26T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	946	12.5	11825
B07-27T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-27T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	948	12.5	11850
B07-28T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-28T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	950	12.5	11875
B07-29T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-29T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	952	12.5	11900
B07-30T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-30T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	954	12.5	11925
B07-31T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-31T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	956	12.5	11950
B07-32T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-32T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	958	12.5	11975
B07-33T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-33T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	960	12.5	12000
B07-34T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-34T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	962	12.5	12025
B07-35T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-35T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	964	12.5	12050
B07-36T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-36T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	966	12.5	12075
B07-37T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-37T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	968	12.5	12100
B07-38T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-38T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	970	12.5	12125
B07-39T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-39T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	972	12.5	12150
B07-40T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-40T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	974	12.5	12175
B07-41T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-41T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	976	12.5	12200
B07-42T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-42T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	978	12.5	12225
B07-43T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-43T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	980	12.5	12250
B07-44T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-44T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	982	12.5	12275
B07-45T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	2988	21.125	63121.5
B07-45T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	984	12.5	12300
B07-46T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	3324	21.125	70219.5
B07-46T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	940	12.5	11750
B07-47T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	3324	21.125	70219.5
B07-47T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	940	12.5	11750
B07-48T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	3324	21.125	70219.5
B07-48T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	940	12.5	11750
B07-49T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	3324	21.125	70219.5
B07-49T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	940	12.5	11750
B07-50T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	3324	21.125	70219.5
B07-50T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	940	12.5	11750
B07-51T1-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	3324	21.125	70219.5
B07-51T1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	940	12.5	11750
B07-51T2-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	3324	21.125	70219.5
B07-51T2-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	940	12.5	11750
B07-51T3-1C		10	Tee Weld Joint	FCAW	6.5		3F	1	3324	21.125	70219.5
B07-51T3-21	FB	80*8.0	Tee Weld Joint	FCAW	5		3F	1	940	12.5	11750
										0	0
B07-BTM1-1C		14	Tee Weld Joint	FCAW	9		1F	1	30248	40.5	1225044
B07-BTM1-21	FB	40*8.0	Tee Weld Joint	FCAW	5		1F	1	2952	12.5	36900
B07-BTM1-22	FB	40*8.0	Tee Weld Joint	FCAW	5		1F	1	17500	12.5	218750
B07-BTM1-23	FB	40*8.0	Tee Weld Joint	FCAW	5		1F	1	10496	12.5	131200
B07-BTM1-24	FB	40*8.0	Tee Weld Joint	FCAW	5		1F	1	3888	12.5	48600
B07-BTM1-2C		14	Butt Weld Joint	FCAW	9		1G	16	8800	214.0501	117727.555
										0	0
B07-CKN01-1S		9	Tee Weld Joint	FCAW	5		3F	1	688	12.5	8600
B07-CKN02-1S		9	Tee Weld Joint	FCAW	5		3F	1	434	12.5	5425
B07-CKN03-1S		9	Tee Weld Joint	FCAW	5		3F	1	938	12.5	11725
B07-CKN04-1S		9	Tee Weld Joint	FCAW	5		3F	1	720	12.5	9000
B07-CKN5-1S		9	Tee Weld Joint	FCAW	5		3F	1	720	12.5	9000
B07-CKN6-1S		9	Tee Weld Joint	FCAW	5		3F	1	720	12.5	9000
										0	0
B07-HR10-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR10-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
	(mm)				Double Continues Weld	Slag Intermit Weld					
B07-HR11-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR11-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR1-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	2734	21.125	57755.75
B07-HR1-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	1100	12.5	13750
B07-HR12-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR12-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR13-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR13-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR14-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR14-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR15-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR15-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR16-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR16-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR17-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR17-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR18-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR18-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR19-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR19-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR20-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR20-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR21-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR21-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR2-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3050	21.125	64431.25
B07-HR2-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	956	12.5	11950
B07-HR22-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR22-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR23-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR23-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR24-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR24-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR25-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR25-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR26-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR26-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR27-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR27-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR28-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR28-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR29-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3738	21.125	78965.25
B07-HR29-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	974.1306	12.5	12176.6325
B07-HR30-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3738	21.125	78965.25
B07-HR30-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	974.1306	12.5	12176.6325
B07-HR31-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3442	21.125	72712.25
B07-HR31-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	974.1406	12.5	12176.7575
B07-HR3-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	2422	21.125	51164.75
B07-HR3-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	982.282	12.5	12278.525
B07-HR32-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3442	21.125	72712.25
B07-HR32-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	974.1406	12.5	12176.7575
B07-HR33-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3144	21.125	66417
B07-HR33-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	974.1306	12.5	12176.6325
B07-HR34-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	2978	21.125	62910.25
B07-HR34-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	1027.572	12.5	12844.65
B07-HR35-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3144	21.125	66417
B07-HR35-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	974.1306	12.5	12176.6325
B07-HR36-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	2978	21.125	62910.25
B07-HR36-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	1027.572	12.5	12844.65
B07-HR37-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	2978	21.125	62910.25
B07-HR37-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	1027.572	12.5	12844.65
B07-HR4-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR4-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR5-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR5-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR6-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR6-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR7-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR7-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR8-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR8-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
B07-HR9-1C		10	Tee Weld Joint	FCAW	6.5		2F	1	3824	21.125	80782
B07-HR9-21	FB	80*8.0	Tee Weld Joint	FCAW	5		2F	1	940	12.5	11750
											0
B07-SIDE1-1P		12	Tee Weld Joint	FCAW	7.5		2F	1	41588	28.125	1169662.5
B07-SIDE1-1P		12	Tee Weld Joint	FCAW	7.5		2F	1	41588	28.125	1169662.5
B07-SIDE1-21	FB	50*8.0	Tee Weld Joint	FCAW	5		2F	1	11841.912	12.5	148023.9
B07-SIDE1-22	FB	50*8.0	Tee Weld Joint	FCAW	5		2F	1	5816.1872	12.5	72702.34
B07-SIDE1-23	FB	50*8.0	Tee Weld Joint	FCAW	5		2F	1	9699.082	12.5	121238.525
B07-SIDE1A-1P		12	Tee Weld Joint	FCAW	7.5		2F	1	7858	28.125	221006.25
B07-SIDE1A-21	FB	50*8.0	Tee Weld Joint	FCAW	5		2F	1	4321.5188	12.5	54018.985
B07-SIDE1B-1P		12	Tee Weld Joint	FCAW	7.5		2F	1	7858	28.125	221006.25
B07-SIDE1B-21	FB	50*8.0	Tee Weld Joint	FCAW	5		2F	1	6394.0732	12.5	79925.915
B07-SIDE1CHL-1S		9	Tee Weld Joint	FCAW	5		2F	1	4085.2516	12.5	51065.645
B07-SIDE2-1S		12	Tee Weld Joint	FCAW	7.5		2F	1	41588	28.125	1169662.5
B07-SIDE2-21	FB	50*8.0	Tee Weld Joint	FCAW	5		2F	1	17659.7582	12.5	220746.9775
B07-SIDE2-22	FB	50*8.0	Tee Weld Joint	FCAW	5		2F	1	9703.2242	12.5	121290.3025
B07-SIDE2-23	FB	50*8.0	Tee Weld Joint	FCAW	5		2F	1	9703.2242	12.5	121290.3025
B07-SIDE2A-1S		12	Tee Weld Joint	FCAW	7.5		2F	1	7858	28.125	221006.25
B07-SIDE2A-21	FB	50*8.0	Tee Weld Joint	FCAW	5		2F	1	4321.5188	12.5	54018.985
B07-SIDE2B-1S		12	Tee Weld Joint	FCAW	7.5		2F	1	7858	28.125	221006.25
B07-SIDE2B-21	FB	50*8.0	Tee Weld Joint	FCAW	5		2F	1	6394.0732	12.5	79925.915
B07-SIDE2CHL-1S		9	Tee Weld Joint	FCAW	7.5		2F	1	27296.561	28.125	767715.7781
B07-SIDE3CHL-1S		9	Tee Weld Joint	FCAW	5		2F	1	6149.5596	12.5	76869.495
											0
B07-SKGF-1C		12	Tee Weld Joint	FCAW	7.5		2F	1	3759.745	28.125	105742.8281

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
	FB				Double Continues Weld	Slag Intermit Weld					
B07-SKGF-21	FB	40*8.0	Tee Weld Joint	FCAW	5		3F	1	3759.745	12.5	46996.8125
											0
											0
ERECTION			Tee Weld Joint	FCAW	7.5		4F		40282.7276	28.125	1132951.714
			Tee Weld Joint	FCAW	7.5		4F		40282.7276	28.125	1132951.714
											0
			Tee Weld Joint	SMAW	7.5		4F	1	2000	28.125	56250

Lampiran 2 Tabel Perhitungan Panjang Pengelasan Tiap Blok

ASSEMBLY PART LIST BLOCK B01
HARBOUR TUG 2x2200 HP PT.DUMAS

Part name	Ketebalan Plat (mm)		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
B01_A1-1P		16	Butt Weld Joint	FCAW	10		2G	10	88606.2	268.5	2379197.5
			Tee Weld Joint	FCAW	10		2F	1	4396.1	50.0	219806.4
B01_A1-1S		16	Butt Weld Joint	FCAW	10		2G	10	88606.2	268.5	2379197.5
			Tee Weld Joint	FCAW	10		2F	1	4396.1	50.0	219806.4
B01_A2-1P		10	Butt Weld Joint	FCAW	10		2G	6	21630.2	131.9	475623.9
B01_A2-1S		10	Butt Weld Joint	FCAW	10		2G	6	21630.2	131.9	475623.9
B01_A3-1P		10	Butt Weld Joint	FCAW	10		2G	6	21296.6	131.9	468288.2
B01_A3-1S		10	Butt Weld Joint	FCAW	10		2G	6	21296.6	131.9	468288.2
B01_A4-1P		14	Butt Weld Joint	FCAW	10		2G	9	15228.0	214.1	362172.8
			Tee Weld Joint	FCAW	10		2F	1	1116.0	50.0	55800.0
B01_A4-1S		14	Butt Weld Joint	FCAW	10		2G	9	15228.0	214.1	362172.8
			Tee Weld Joint	FCAW	10		2F	1	1116.0	50.0	55800.0
B01_B1-1P		16	Butt Weld Joint	FCAW	10		2G	10	89587.5	268.5	2405548.4
B01_B1-1S		16	Butt Weld Joint	FCAW	10		2G	10	89587.5	268.5	2405548.4
B01_C1-1P		10	Butt Weld Joint	FCAW	10		2G	6	53923.3	131.9	1185714.0
B01_C1-1S		10	Butt Weld Joint	FCAW	10		2G	6	53923.3	131.9	1185714.0
B01_D1-1P		10	Butt Weld Joint	FCAW	10		2G	6	55480.9	131.9	1219963.4
B01_D1-1S		10	Butt Weld Joint	FCAW	10		2G	6	55480.9	131.9	1219963.4
B01_E1-1P		14	Butt Weld Joint	FCAW	10		2G	9	78101.1	214.1	1857506.3
B01_E1-1S		14	Butt Weld Joint	FCAW	10		2G	9	78101.1	214.1	1857506.3
B01_KE1-1C		14	Butt Weld Joint	FCAW	10		2G	9	62198.5	214.1	1479289.0
B01_KE2-1C		10	Butt Weld Joint	FCAW	10		2G	6	21498.0	131.9	472717.0
B01_KE3-1C		14	Butt Weld Joint	FCAW	10		2G	9	8037.0	214.1	191146.7
B01_MDK1A-1C		9	Butt Weld Joint	FCAW	10		1G	6	48432.0	131.9	1064965.6
			Tee Weld Joint	FCAW	10		1F	1	4203.4	50.0	210168.0
B01_MDK1B-1C		9	Butt Weld Joint	FCAW	10		1G	6	32592.0	131.9	716661.7
B01_MDK2A-1P		9	Butt Weld Joint	FCAW	10		1G	6	15010.8	131.9	330071.0
			Tee Weld Joint	FCAW	10		1F	1	8931.0	50.0	446552.3
B01_MDK2A-1S		9	Butt Weld Joint	FCAW	10		1G	6	15010.8	131.9	330071.0
			Tee Weld Joint	FCAW	10		1F	1	8931.0	50.0	446552.3
B01_MDK2B-1P		9	Butt Weld Joint	FCAW	10		1G	6	21042.0	131.9	462690.1
			Tee Weld Joint	FCAW	10		1F	1	15656.0	50.0	782798.8
B01_MDK2B-1S		9	Butt Weld Joint	FCAW	10		1G	6	21042.0	131.9	462690.1
			Tee Weld Joint	FCAW	10		1F	1	15656.0	50.0	782798.8
B01_MDK3A-1P		9	Butt Weld Joint	FCAW	10		1G	6	31806.0	131.9	699378.4
			Tee Weld Joint	FCAW	10		1F	1	23263.0	50.0	1163150.5
B01_MDK3B-1S		9	Butt Weld Joint	FCAW	10		1G	6	13518.0	131.9	297245.7
			Tee Weld Joint	FCAW	10		1F	1	23263.0	50.0	1163150.5
			FCAW								0.0
Frame 1			FCAW								0.0
			FCAW								0.0
B01-CG3-25	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	3411.0	12.5	42637.5
B01-CG3-26P		9	Tee Weld Joint	FCAW	5		2F	1	1098.3	12.5	13728.6
			Lapped Weld Joint	SMAW	5		3F	1	429.2	12.5	5364.4
			FCAW						0.0		0.0
Frame 2			FCAW						0.0		0.0
			FCAW						0.0		0.0
B01-CG3-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	6.7	12.5	83.4
B01-CG3-26P		9	Tee Weld Joint	FCAW	5		2F	1	1098.3	12.5	13728.6
			Lapped Weld Joint	SMAW	5		3F	1	429.2	12.5	5364.4
B01-2B1-1P		9	Tee Weld Joint	FCAW	5		2F	1	1098.3	12.5	13728.6
			Lapped Weld Joint	SMAW	5		3F	1	429.2	12.5	5364.4
											0.0
Frame 3											0.0
											0.0
B01-3LB1-1P		14	Tee weld Joint	FCAW	9		3F	1	5402.0	40.5	218781.0
B01-3LB1-1S		14	Tee weld Joint	FCAW	9		2F	1	5402.0	40.5	218781.0
B01-3LB1-21	FB	150*16.0	Tee weld Joint	FCAW	10		2F	1	2438.0	50.0	121900.0
B01-3LB1-21	FB	150*16.0	Tee weld Joint	FCAW	10		2F	1	2438.0	50.0	121900.0
B01-3LB2-1P		14	Tee weld Joint	FCAW	9		3F	1	5460.0	40.5	221130.0
B01-3LB2-1S		14	Tee weld Joint	FCAW	9		2F	1	5460.0	40.5	221130.0
B01-3LB2-21	FB	150*16.0	Tee weld Joint	FCAW	10		2F	1	2524.0	50.0	126200.0
B01-3LB2-21	FB	150*16.0	Tee weld Joint	FCAW	10		2F	1	2524.0	50.0	126200.0
B01-3T1-1C		9	Butt Weld Joint	FCAW	5		1G	6	41352.0	131.9	909284.3
			Tee Weld Joint	FCAW	6		3F	1	15976.4	18.0	287575.8
B01-3T1-21	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	2644.0	12.5	33050.0
B01-3T1-21	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	2644.0	12.5	33050.0
B01-3T1-22	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	5144.0	12.5	64300.0
B01-3T1-22	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	5144.0	12.5	64300.0
B01-3T1-23	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	5144.0	12.5	64300.0
B01-3T1-23	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	5144.0	12.5	64300.0
B01-3T1-24	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	5144.0	12.5	64300.0
B01-3T1-24	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	5144.0	12.5	64300.0
B01-3T1-25	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	4274.0	12.5	53425.0
B01-3T1-25	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	4274.0	12.5	53425.0
B01-3T1-26	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	1508.0	12.5	18850.0
B01-3T1-26	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	1508.0	12.5	18850.0
B01-3T1-27	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	4368.0	12.5	54600.0
B01-3T1-28	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	4368.0	12.5	54600.0
B01-3T1-2C		10	Tee Weld Joint	FCAW	6		2F	1	26239.2	18.0	472305.4
B01-3T1-30	FB	100*10.0	Tee Weld Joint	FCAW		5	2F	1	480.0	12.5	6000.0
B01-3T1-30	FB	100*10.0	Tee Weld Joint	FCAW		5	2F	1	480.0	12.5	6000.0
B01-3T1-31	FB	100*10.0	Tee Weld Joint	FCAW		5	2F	1	480.0	12.5	6000.0

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
	(mm)										
B01-3T1-31	FB	100*10.0	Tee Weld Joint	FCAW		5	2F	1	480.0	12.5	6000.0
B01-3T1-32P		9	Tee Weld Joint	FCAW	5		2F	1	1098.3	12.5	13728.6
			Lapped Weld Joint	SMAW	5		3F	1	429.2	12.5	5364.4
B01-3T1-32S		9	Tee Weld Joint	FCAW	5		2F	1	1098.3	12.5	13728.6
			Lapped Weld Joint	SMAW	5		3F	1	429.2	12.5	5364.4
B01-3T1-33P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-3T1-33P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-3T1-33P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-3T1-33P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-3T1-33S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-3T1-33S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-3T1-33S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-3T1-33S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-3T1-34P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-3T1-34P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-3T1-34S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-3T1-34S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-3T1-35P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-3T1-35S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-3T1-36P		9	Tee Weld Joint	FCAW	5		2F	1	1488.0	12.5	18600.0
B01-3T1-36S		9	Tee Weld Joint	FCAW	5		3F	1	1488.0	12.5	18600.0
B01-3T1-37P		9	Tee Weld Joint	FCAW	5		2F	1	1098.3	12.5	13728.6
			Lapped Weld Joint	SMAW	5		3F	1	429.2	12.5	5364.4
B01-3T1-37S		9	Tee Weld Joint	FCAW	5		2F	1	1098.3	12.5	13728.6
			Lapped Weld Joint	SMAW	5		3F	1	429.2	12.5	5364.4
B01-3T1-38P		9	Tee Weld Joint	FCAW	5		2F	1	1098.3	12.5	13728.6
			Lapped Weld Joint	SMAW	5		3F	1	429.2	12.5	5364.4
B01-3T1-38S		9	Tee Weld Joint	FCAW	5		2F	1	1098.3	12.5	13728.6
			Lapped Weld Joint	SMAW	5		3F	1	429.2	12.5	5364.4
B01-3T1-39P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-3T1-39S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-3T1-40	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	1126.0	12.5	14075.0
B01-3T1-40	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	1126.0	12.5	14075.0
											0.0
Frame 4											0.0
											0.0
B01-4HTB1-1P		9	Tee Weld Joint	FCAW	5		2F	1	3172.1	12.5	39651.1
B01-4HTB1-1S		9	Tee Weld Joint	FCAW	5		2F	1	3172.1	12.5	39651.1
B01-4LB1-1P		14	Tee Weld Joint	FCAW	9		3F	1	4920.0	40.5	199260.0
B01-4LB1-1S		14	Tee Weld Joint	FCAW	9		2F	1	4920.0	40.5	199260.0
B01-4LB1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	2034.0	50.0	101700.0
B01-4LB1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	2034.0	50.0	101700.0
B01-4LB2-1P		14	Tee Weld Joint	FCAW	9		3F	1	4978.0	40.5	201609.0
B01-4LB2-1S		14	Tee Weld Joint	FCAW	9		2F	1	4978.0	40.5	201609.0
B01-4LB2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	2046.0	50.0	102300.0
B01-4LB2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	2046.0	50.0	102300.0
B01-4T11-1	L	100*100*8.0	Tee Weld Joint	FCAW		5	2F	1	4046.0	12.5	50575.0
B01-4T11-1	L	100*100*8.0	Tee Weld Joint	FCAW		5	2F	1	4046.0	12.5	50575.0
B01-4T1-1P		14	Tee Weld Joint	FCAW	9		2F	1	4472.0	40.5	181116.0
B01-4T1-1S		14	Tee Weld Joint	FCAW	9		3F	1	4472.0	40.5	181116.0
B01-4T1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1826.0	50.0	91300.0
B01-4T1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1826.0	50.0	91300.0
B01-4T2-1P		14	Tee Weld Joint	FCAW	9		2F	1	3514.0	40.5	142317.0
B01-4T2-1S		14	Tee Weld Joint	FCAW	9		3F	1	3514.0	40.5	142317.0
B01-4T2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	802.0	50.0	40100.0
B01-4T2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	802.0	50.0	40100.0
B01-4T3-1P		14	Tee Weld Joint	FCAW	9		2F	1	3514.0	40.5	142317.0
B01-4T3-1S		14	Tee Weld Joint	FCAW	9		3F	1	3514.0	40.5	142317.0
B01-4T4-1P		14	Tee Weld Joint	FCAW	9		2F	1	3514.0	40.5	142317.0
B01-4T4-1S		14	Tee Weld Joint	FCAW	9		3F	1	3514.0	40.5	142317.0
B01-4T5-1P		14	Tee Weld Joint	FCAW	9		2F	1	3800.0	40.5	153900.0
B01-4T5-1S		14	Tee Weld Joint	FCAW	9		3F	1	3800.0	40.5	153900.0
B01-4T6-1P		14	Tee Weld Joint	FCAW	9		3F	1	4880.0	40.5	197640.0
B01-4T6-1S		14	Tee Weld Joint	FCAW	9		3F	1	4880.0	40.5	197640.0
B01-4T6-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1580.0	50.0	79000.0
B01-4T6-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1580.0	50.0	79000.0
B01-4T7-1P		10	Tee Weld Joint	FCAW	5		3F	1	6756.0	12.5	84450.0
B01-4T7-1S		10	Tee Weld Joint	FCAW	5		3F	1	6756.0	12.5	84450.0
B01-4T7-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	2925.5	12.5	36568.3
B01-4T7-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	2925.5	12.5	36568.3
B01-4T7-22P		9	Lapped Weld Joint	SMAW	5		2F	1	540.0	12.5	6750.0
			Tee Weld Joint	FCAW	5		3F	1	600.0	12.5	7500.0
B01-4T7-22S		9	Lapped Weld Joint	SMAW	5		2F	1	540.0	12.5	6750.0
			Tee Weld Joint	FCAW	5		3F	1	600.0	12.5	7500.0
B01-CG2-25P		9	Lapped Weld Joint	SMAW	5		2F	1	450.0	12.5	5625.0
			Tee Weld Joint	FCAW	5		3F	1	714.0	12.5	8925.0
B01-CG2-25P		9	Lapped Weld Joint	SMAW	5		2F	1	450.0	12.5	5625.0
			Tee Weld Joint	FCAW	5		3F	1	714.0	12.5	8925.0
B01-CG2-25S		9	Lapped Weld Joint	SMAW	5		2F	1	450.0	12.5	5625.0
			Tee Weld Joint	FCAW	5		3F	1	714.0	12.5	8925.0
B01-CG2-25S		9	Lapped Weld Joint	SMAW	5		2F	1	450.0	12.5	5625.0
			Tee Weld Joint	FCAW	5		3F	1	714.0	12.5	8925.0
									0.0	0.0	0.0
Frame 5									0.0	0.0	0.0
									0.0	0.0	0.0
B01-5HTB1-1P		9	Tee Weld Joint	FCAW	5		2F	1	2429.7	12.5	30371.4
B01-5HTB1-1S		9	Tee Weld Joint	FCAW	5		2F	1	2429.7	12.5	30371.4
B01-5LB1-1P		14	Tee Weld Joint	FCAW	9		3F	1	4868.0	40.5	197154.0
B01-5LB1-1S		14	Tee Weld Joint	FCAW	9		2F	1	4868.0	40.5	197154.0

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
	(mm)										
B01-5LB1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1970.0	50.0	98500.0
B01-5LB1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1970.0	50.0	98500.0
B01-5LB2-1P		14	Tee Weld Joint	FCAW	9		3F	1	4926.0	40.5	199503.0
B01-5LB2-1S		14	Tee Weld Joint	FCAW	9		2F	1	4926.0	40.5	199503.0
B01-5LB2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1984.0	50.0	99200.0
B01-5LB2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1984.0	50.0	99200.0
B01-5T1-1P		14	Tee Weld Joint	FCAW	9		2F	1	4376.0	40.5	177228.0
B01-5T1-1S		14	Tee Weld Joint	FCAW	9		3F	1	4376.0	40.5	177228.0
B01-5T1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1824.0	50.0	91200.0
B01-5T1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1824.0	50.0	91200.0
B01-5T2-1P		9	Tee Weld Joint	FCAW	5		2F	1	4138.0	12.5	51725.0
B01-5T2-1S		9	Tee Weld Joint	FCAW	5		2F	1	4138.0	12.5	51725.0
B01-5T2-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2443.0	12.5	30537.1
B01-5T2-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2443.0	12.5	30537.1
B01-5T3-1P		10	Tee Weld Joint	FCAW	5		3F	1	9568.0	12.5	119600.0
B01-5T3-1S		10	Tee Weld Joint	FCAW	5		3F	1	9568.0	12.5	119600.0
B01-5T3-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	4470.5	12.5	55880.9
B01-5T3-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	4470.5	12.5	55880.9
B01-5XLB1-1P		10	Tee Weld Joint	FCAW	5		2F	1	1580.0	12.5	19750.0
B01-5XLB1-1S		10	Tee Weld Joint	FCAW	5		2F	1	1580.0	12.5	19750.0
									0.0	0.0	0.0
Frame 6									0.0	0.0	0.0
									0.0	0.0	0.0
B01-6HTB1-1P		9	Tee Weld Joint	FCAW	5		2F	1	2375.6	12.5	29694.7
B01-6HTB1-1S		9	Tee Weld Joint	FCAW	5		2F	1	2375.6	12.5	29694.7
B01-6LB1-1P		14	Tee Weld Joint	FCAW	9		3F	1	5494.0	40.5	222507.0
B01-6LB1-1S		14	Tee Weld Joint	FCAW	9		2F	1	5494.0	40.5	222507.0
B01-6LB1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	3208.6	50.0	160428.3
B01-6LB1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	3208.6	50.0	160428.3
B01-6LB2-1P		14	Tee Weld Joint	FCAW	9		3F	1	5216.0	40.5	211248.0
B01-6LB2-1S		14	Tee Weld Joint	FCAW	9		2F	1	5216.0	40.5	211248.0
B01-6LB2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	2357.5	50.0	117875.0
B01-6LB2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	2357.5	50.0	117875.0
B01-6T1-1P		14	Tee Weld Joint	FCAW	9		2F	1	3524.0	40.5	142722.0
B01-6T1-1S		14	Tee Weld Joint	FCAW	9		3F	1	3524.0	40.5	142722.0
B01-6T1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1074.0	50.0	53700.0
B01-6T1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1074.0	50.0	53700.0
B01-6T2-1P		14	Tee Weld Joint	FCAW	9		3F	1	2420.0	40.5	98010.0
			Butt Weld Joint	FCAW	9		2G	9	13518.0	214.1	321503.3
B01-6T2-1S		14	Tee Weld Joint	FCAW	9		3F	1	2420.0	40.5	98010.0
			Butt Weld Joint	FCAW	5		2G	9	13518.0	12.5	18775.0
B01-6T2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	664.0	50.0	33200.0
B01-6T2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	664.0	50.0	33200.0
B01-6T3-1P		10	Tee Weld Joint	FCAW	5		3F	1	5186.0	12.5	64825.0
B01-6T3-1S		10	Tee Weld Joint	FCAW	5		3F	1	5186.0	12.5	64825.0
B01-6T3-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3056.3	12.5	38203.7
B01-6T3-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3056.3	12.5	38203.7
B01-6T4-1P		9	Tee Weld Joint	FCAW	5		2F	1	2918.0	12.5	36475.0
B01-6T4-1S		9	Tee Weld Joint	FCAW	5		2F	1	2918.0	12.5	36475.0
B01-6T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1582.1	12.5	19776.7
B01-6T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1582.1	12.5	19776.7
B01-6T5-1P		14	Tee Weld Joint	FCAW	9		2F	1	1098.0	40.5	44469.0
B01-6T5-1S		14	Tee Weld Joint	FCAW	9		3F	1	1098.0	40.5	44469.0
B01-6T5-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	831.9	50.0	41594.2
B01-6T5-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	831.9	50.0	41594.2
B01-6T5-22	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	428.7	12.5	5358.7
B01-6T5-22	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	428.7	12.5	5358.7
									0.0	0.0	0.0
Frame 7									0.0	0.0	0.0
									0.0	0.0	0.0
B01-7HTB1-1P		9	Tee Weld Joint	FCAW	5		2F	1	2349.1	12.5	29364.2
B01-7HTB1-1S		9	Tee Weld Joint	FCAW	5		2F	1	2349.1	12.5	29364.2
B01-7LB1-1P		14	Tee Weld Joint	FCAW	9		3F	1	5428.0	40.5	219834.0
			Butt Weld Joint	FCAW	9		3G	5	3415.0	214.1	146196.2
B01-7LB1-1S		14	Tee Weld Joint	FCAW	9		3F	1	5428.0	40.5	219834.0
			Butt Weld Joint	FCAW	9		3G	5	3415.0	214.1	146196.2
B01-7LB1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	4464.5	50.0	223223.7
B01-7LB1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	4464.5	50.0	223223.7
B01-7LB1A-1P		14	Tee Weld Joint	FCAW	9		2F	1	1546.0	40.5	62613.0
B01-7LB1A-1S		14	Tee Weld Joint	FCAW	9		2F	1	1546.0	40.5	62613.0
B01-7LB1A-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	143.7	50.0	7186.4
B01-7LB1A-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	143.7	50.0	7186.4
B01-7LB2-1P		10	Tee Weld Joint	FCAW	5		2F	1	8234.0	12.5	102925.0
B01-7LB2-1S		10	Tee Weld Joint	FCAW	5		2F	1	8234.0	12.5	102925.0
B01-7LB2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	4133.8	12.5	51673.0
B01-7LB2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	4133.8	12.5	51673.0
B01-7LB3-1P		10	Tee Weld Joint	FCAW	5		2F	1	2474.0	12.5	30925.0
B01-7LB3-1S		10	Tee Weld Joint	FCAW	5		2F	1	2474.0	12.5	30925.0
B01-7LB3-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.2	12.5	20652.8
B01-7LB3-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.2	12.5	20652.8
B01-7T1-1P		14	Tee Weld Joint	FCAW	5		2F	1	3730.0	12.5	46625.0
B01-7T1-1S		14	Tee Weld Joint	FCAW	5		3F	1	3730.0	12.5	46625.0
B01-7T1-21	FB	150*16.0	Tee Weld Joint	FCAW	5		2F	1	1630.0	12.5	20375.0
B01-7T1-21	FB	150*16.0	Tee Weld Joint	FCAW	5		2F	1	1630.0	12.5	20375.0
B01-7T1-22	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	683.6	12.5	8544.4
B01-7T1-22	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	683.6	12.5	8544.4
B01-7T2-1P		10	Butt Weld Joint	FCAW	5		2G	6	2706.0	131.9	59501.9
			Tee Weld Joint	FCAW	5		3F	1	5136.0	12.5	64200.0
B01-7T2-1S		10	Butt Weld Joint	FCAW	5		2G	6	2706.0	131.9	59501.9

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
	(mm)										
B01-7T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5136.0	12.5	64200.0
B01-7T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3177.8	12.5	39721.9
B01-7T3-1P		14	Tee Weld Joint	FCAW	9		3F	1	5926.0	40.5	240003.0
B01-7T3-1S		14	Tee Weld Joint	FCAW	9		3F	1	5926.0	40.5	240003.0
B01-7T3-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1499.2	50.0	74962.2
B01-7T3-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1499.2	50.0	74962.2
B01-7T3-22	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	574.5	12.5	7181.5
B01-7T3-22	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	574.5	12.5	7181.5
B01-7T4-1P		9	Tee Weld Joint	FCAW	5		2F	1	2872.0	12.5	35900.0
B01-7T4-1S		9	Tee Weld Joint	FCAW	5		2F	1	2872.0	12.5	35900.0
B01-7T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1105.0	12.5	13812.3
B01-7T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1105.0	12.5	13812.3
B01-7XL1-1P		10	Tee Weld Joint	FCAW	5		2F	1	2212.0	12.5	27650.0
Frame 8									0.0	0.0	0.0
B01-8B01-1P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-8B01-1S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-8B02-1C		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-8B03-1C		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-8B04-1C		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-8B05-1C		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-8HTB1-1P		9	Tee Weld Joint	FCAW	5		2F	1	2340.4	12.5	29254.9
B01-8HTB1-1S		9	Tee Weld Joint	FCAW	5		2F	1	2340.4	12.5	29254.9
B01-8HTB2-1P		9	Tee Weld Joint	FCAW	5		2F	1	2332.4	12.5	29154.9
B01-8HTB2-1S		9	Tee Weld Joint	FCAW	5		2F	1	2332.4	12.5	29154.9
B01-8LB1-1P		9	Tee Weld Joint	FCAW	5		2F	1	1175.2	12.5	14690.3
B01-8LB1-1S		9	Lapped Weld Joint	SMAW	5		3F	1	384.0	12.5	4800.0
B01-8LB1-1S		9	Tee Weld Joint	FCAW	5		2F	1	1175.2	12.5	14690.3
B01-8LB2-1P		9	Lapped Weld Joint	SMAW	5		3F	1	384.0	12.5	4800.0
B01-8LB2-1P		9	Lapped Weld Joint	SMAW	5		3F	1	440.0	12.5	5500.0
B01-8LB2-1S		9	Tee Weld Joint	FCAW	5		2F	1	1318.0	12.5	16475.0
B01-8LB2-1S		9	Lapped Weld Joint	SMAW	5		3F	1	440.0	12.5	5500.0
B01-8LB2-1S		9	Lapped Weld Joint	SMAW	5		3F	1	440.0	12.5	5500.0
B01-8LB2-1S		9	Lapped Weld Joint	SMAW	5		3F	1	440.0	12.5	5500.0
B01-8T1-1P		14	Tee Weld Joint	FCAW	9		2F	1	3888.0	40.5	157464.0
B01-8T1-1S		14	Tee Weld Joint	FCAW	9		3F	1	3888.0	40.5	157464.0
B01-8T1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1274.0	50.0	63700.0
B01-8T1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1274.0	50.0	63700.0
B01-8T1-22	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	683.6	12.5	8544.4
B01-8T1-22	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	683.6	12.5	8544.4
B01-8T2-1P		10	Butt Weld Joint	FCAW	5		2G	6	2706.0	131.9	59501.9
B01-8T2-1S		10	Tee Weld Joint	FCAW	5		3F	1	5136.0	12.5	64200.0
B01-8T2-1S		10	Butt Weld Joint	FCAW	5		2G	6	2706.0	131.9	59501.9
B01-8T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3177.8	12.5	39721.9
B01-8T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3177.8	12.5	39721.9
B01-8T3-1P		14	Tee Weld Joint	FCAW	9		3F	1	5926.0	40.5	240003.0
B01-8T3-1S		14	Tee Weld Joint	FCAW	9		3F	1	5926.0	40.5	240003.0
B01-8T3-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1499.2	50.0	74962.2
B01-8T3-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1499.2	50.0	74962.2
B01-8T3-22	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	574.5	12.5	7181.5
B01-8T3-22	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	574.5	12.5	7181.5
B01-8T4-1P		9	Tee Weld Joint	FCAW	5		2F	1	2872.0	12.5	35900.0
B01-8T4-1S		9	Tee Weld Joint	FCAW	5		2F	1	2872.0	12.5	35900.0
B01-8T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1105.0	12.5	13812.3
B01-8T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1105.0	12.5	13812.3
B01-RING1-41P		9	Tee Weld Joint	FCAW	5		2F	1	580.0	12.5	7250.0
B01-RING1-41S		9	Tee Weld Joint	FCAW	5		3F	1	580.0	12.5	7250.0
B01-RING1-21P		9	Tee Weld Joint	FCAW	5		2F	1	580.0	12.5	7250.0
B01-RING1-21S		9	Tee Weld Joint	FCAW	5		3F	1	580.0	12.5	7250.0
Frame 9									0.0	0.0	0.0
B01-9HTB1-1P		9	Tee Weld Joint	FCAW	5		2F	1	2320.0	12.5	29000.0
B01-9HTB1-1S		9	Tee Weld Joint	FCAW	5		2F	1	2320.0	12.5	29000.0
B01-9HTB2-1P		9	Tee Weld Joint	FCAW	5		2F	1	2266.0	12.5	28325.0
B01-9HTB2-1S		9	Tee Weld Joint	FCAW	5		2F	1	2266.0	12.5	28325.0
B01-9LB1-1P		9	Tee Weld Joint	FCAW	5		2F	1	1175.2	12.5	14690.3
B01-9LB1-1S		9	Lapped Weld Joint	SMAW	5		3F	1	384.0	12.5	4800.0
B01-9LB1-1S		9	Tee Weld Joint	FCAW	5		2F	1	1175.2	12.5	14690.3
B01-9LB1-1S		9	Lapped Weld Joint	SMAW	5		3F	1	384.0	12.5	4800.0
B01-9T1-1P		14	Tee Weld Joint	FCAW	9		2F	1	3730.0	40.5	151065.0
B01-9T1-1S		14	Tee Weld Joint	FCAW	9		3F	1	3730.0	40.5	151065.0
B01-9T1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1630.0	50.0	81500.0
B01-9T1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1630.0	50.0	81500.0
B01-9T1-22	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	683.6	12.5	8544.4
B01-9T1-22	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	683.6	12.5	8544.4
B01-9T2-1P		10	Butt Weld Joint	FCAW	5		2G	6	2706.0	131.9	59501.9
B01-9T2-1S		10	Tee Weld Joint	FCAW	5		3F	1	5136.0	12.5	64200.0
B01-9T2-1S		10	Butt Weld Joint	FCAW	5		2G	6	2706.0	131.9	59501.9
B01-9T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3177.8	12.5	39721.9
B01-9T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3177.8	12.5	39721.9
B01-9T3-1P		14	Tee Weld Joint	FCAW	9		3F	1	5926.0	40.5	240003.0
B01-9T3-1S		14	Tee Weld Joint	FCAW	9		3F	1	5926.0	40.5	240003.0
B01-9T3-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1499.2	50.0	74962.2

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
	(mm)										
B01-9T3-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1499.2	50.0	74962.2
B01-9T3-22	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	574.5	12.5	7181.5
B01-9T3-22	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	574.5	12.5	7181.5
B01-9T4-1P		9	Tee Weld Joint	FCAW	5		2F	1	2872.0	12.5	35900.0
B01-9T4-1S		9	Tee Weld Joint	FCAW	5		2F	1	2872.0	12.5	35900.0
B01-9T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1105.0	12.5	13812.3
B01-9T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1105.0	12.5	13812.3
B01-9XL1-1P		10	Tee Weld Joint	FCAW	5		2F	1	2212.0	12.5	27650.0
Frame 10									0.0	0.0	0.0
									0.0	0.0	0.0
B01-10B1-1P		9	Lapped Weld Joint	SMAW	5		2F	1	336.0	12.5	4200.0
			Tee Weld Joint	FCAW	5		3F	1	582.0	12.5	7275.0
B01-10B1-1S		9	Lapped Weld Joint	SMAW	5		2F	1	336.0	12.5	4200.0
			Tee Weld Joint	FCAW	5		3F	1	582.0	12.5	7275.0
B01-10HTB1-1P		9	Tee Weld Joint	FCAW	5		2F	1	2324.0	12.5	29050.0
B01-10HTB1-1S		9	Tee Weld Joint	FCAW	5		2F	1	2324.0	12.5	29050.0
B01-10HTB2-1P		9	Tee Weld Joint	FCAW	5		2F	1	2316.0	12.5	28950.0
B01-10HTB2-1S		9	Tee Weld Joint	FCAW	5		2F	1	2316.0	12.5	28950.0
B01-10T1-1P		14	Tee Weld Joint	FCAW	9		2F	1	3538.0	40.5	143289.0
B01-10T1-1S		14	Tee Weld Joint	FCAW	9		3F	1	3538.0	40.5	143289.0
B01-10T1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1070.0	50.0	53500.0
B01-10T1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1070.0	50.0	53500.0
B01-10T2-1P		10	Tee Weld Joint	FCAW	5		3F	1	6742.0	12.5	84275.0
			Butt Weld Joint	FCAW	5		2G	6	2760.0	131.9	60689.3
B01-10T2-1S		10	Butt Weld Joint	FCAW	5		3F	1	3371.0	131.9	444747.2
			Tee Weld Joint	FCAW	5		2G	6	5520.0	12.5	11500.0
B01-10T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3479.3	12.5	43490.7
B01-10T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3479.3	12.5	43490.7
B01-10T2-22	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1869.7	50.0	93486.1
B01-10T2-22	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1869.7	50.0	93486.1
B01-10T2-23P		9	Tee Weld Joint	FCAW	5		3F	1	600.0	12.5	7500.0
			Lapped Weld Joint	SMAW	5		2F	1	550.0	12.5	6875.0
B01-10T2-23S		9	Tee Weld Joint	FCAW	5		3F	1	600.0	12.5	7500.0
			Lapped Weld Joint	SMAW	5		2F	1	550.0	12.5	6875.0
B01-10T3-1P		9	Tee Weld Joint	FCAW	5		2F	1	2768.0	12.5	34600.0
B01-10T3-1S		9	Tee Weld Joint	FCAW	5		2F	1	2768.0	12.5	34600.0
B01-10T3-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1615.3	12.5	20191.3
B01-10T3-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1615.3	12.5	20191.3
B01-10T4-1	L	100*100*8.0	Tee Weld Joint	FCAW		5	2F	1	787.0	0.0	0.0
B01-10T4-1	L	100*100*8.0	Tee Weld Joint	FCAW		5	2F	1	787.0	0.0	0.0
B01-10T4-1P		14	Tee Weld Joint	FCAW	9		2F	1	2660.0	40.5	107730.0
B01-10T4-1S		14	Tee Weld Joint	FCAW	9		2F	1	2660.0	40.5	107730.0
B01-10T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	221.4	12.5	2767.2
B01-10T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	221.4	12.5	2767.2
B01-10T4-22	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	431.8	50.0	21591.7
B01-10T4-22	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	431.8	50.0	21591.7
Frame 11									0.0	0.0	0.0
									0.0	0.0	0.0
B01-11HTB1-1P		9	Tee Weld Joint	FCAW	5		2F	1	2324.0	12.5	29050.0
B01-11HTB1-1S		9	Tee Weld Joint	FCAW	5		2F	1	2324.0	12.5	29050.0
B01-11HTB2-1P		9	Tee Weld Joint	FCAW	5		2F	1	2316.0	12.5	28950.0
B01-11HTB2-1S		9	Tee Weld Joint	FCAW	5		2F	1	2316.0	12.5	28950.0
B01-11T4-1P		10	Tee Weld Joint	FCAW	5		3F	1	7310.0	12.5	91375.0
			Butt Weld Joint	FCAW	5		2G	6	2706.0	131.9	59501.9
B01-11T4-1S		10	Tee Weld Joint	FCAW	5		3F	1	7310.0	12.5	91375.0
			Butt Weld Joint	FCAW	5		2G	6	2706.0	131.9	59501.9
B01-11T10-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	4777.8	12.5	59721.9
B01-11T10-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	4777.8	12.5	59721.9
B01-11T10-22	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	3309.2	50.0	165462.2
B01-11T10-22	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	3309.2	50.0	165462.2
B01-11T4-2P		14	Tee Weld Joint	FCAW	9		2F	1	6052.0	40.5	245106.0
B01-11T4-2S		14	Tee Weld Joint	FCAW	9		2F	1	6052.0	40.5	245106.0
B01-11T1-1P		14	Tee Weld Joint	FCAW	9		2F	1	4376.0	40.5	177228.0
B01-11T1-1S		14	Tee Weld Joint	FCAW	9		3F	1	4376.0	40.5	177228.0
B01-11T1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1824.0	50.0	91200.0
B01-11T1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	1824.0	50.0	91200.0
B01-11T2-1P		9	Tee Weld Joint	FCAW	5		2F	1	4138.0	12.5	51725.0
B01-11T2-1S		9	Tee Weld Joint	FCAW	5		2F	1	4138.0	12.5	51725.0
B01-11T2-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2443.0	12.5	30537.1
B01-11T2-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2443.0	12.5	30537.1
B01-11T3-1P		9	Tee Weld Joint	FCAW	5		2F	1	1616.0	12.5	20200.0
B01-11T3-1S		9	Tee Weld Joint	FCAW	5		3F	1	1616.0	12.5	20200.0
B01-11XT1-1P		10	Tee Weld Joint	FCAW	5		2F	1	1600.0	12.5	20000.0
									0.0	0.0	0.0
Frame 12									0.0	0.0	0.0
									0.0	0.0	0.0
B01-12B2-1S		9	Tee Weld Joint	FCAW	5		3F	1	600.0	12.5	7500.0
			Lapped Weld Joint	SMAW	5		2F	1	550.0	12.5	6875.0
B01-12HTB1-1P		9	Tee Weld Joint	FCAW	5		2F	1	2324.0	12.5	29050.0
B01-12HTB1-1S		9	Tee Weld Joint	FCAW	5		2F	1	2324.0	12.5	29050.0
B01-12HTB2-1P		9	Tee Weld Joint	FCAW	5		2F	1	2316.0	12.5	28950.0
B01-12HTB2-1S		9	Tee Weld Joint	FCAW	5		2F	1	2316.0	12.5	28950.0
B01-12T10	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	5097.0	0.0	0.0
B01-12T1-1P		14	Tee Weld Joint	FCAW	5		2F	1	4376.0	12.5	54700.0
B01-12T1-1S		14	Tee Weld Joint	FCAW	5		3F	1	4376.0	12.5	54700.0
B01-12T1-21	FB	150*16.0	Tee Weld Joint	FCAW	5		2F	1	1824.0	12.5	22800.0
B01-12T1-21	FB	150*16.0	Tee Weld Joint	FCAW	5		2F	1	1824.0	12.5	22800.0

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
	(mm)										
B01-12T2-1P		14	Tee Weld Joint	FCAW	9		2F	1	3994.0	40.5	161757.0
B01-12T2-1S		14	Tee Weld Joint	FCAW	9		3F	1	3994.0	40.5	161757.0
B01-12T2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	724.0	50.0	36200.0
B01-12T2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	724.0	50.0	36200.0
B01-12T3-1P		14	Tee Weld Joint	FCAW	9		2F	1	3994.0	40.5	161757.0
B01-12T3-1S		14	Tee Weld Joint	FCAW	9		3F	1	3994.0	40.5	161757.0
B01-12T3-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	724.0	50.0	36200.0
B01-12T3-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	724.0	50.0	36200.0
B01-12T4-1P		14	Tee Weld Joint	FCAW	9		2F	1	3994.0	40.5	161757.0
B01-12T4-1S		14	Tee Weld Joint	FCAW	9		3F	1	3994.0	40.5	161757.0
B01-12T4-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	724.0	50.0	36200.0
B01-12T4-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	724.0	50.0	36200.0
B01-12T5-1P		14	Tee Weld Joint	FCAW	9		2F	1	3994.0	40.5	161757.0
B01-12T5-1S		14	Tee Weld Joint	FCAW	9		3F	1	3994.0	40.5	161757.0
B01-12T5-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	724.0	50.0	36200.0
B01-12T5-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	724.0	50.0	36200.0
B01-12T6-1P		14	Tee Weld Joint	FCAW	9		2F	1	3994.0	40.5	161757.0
B01-12T6-1S		14	Tee Weld Joint	FCAW	9		3F	1	3994.0	40.5	161757.0
B01-12T6-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	724.0	50.0	36200.0
B01-12T6-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	724.0	50.0	36200.0
B01-12T7-1P		10	Tee Weld Joint	FCAW	5		3F	1	7310.0	12.5	91375.0
			Butt Weld Joint	FCAW	5		2G	6	2706.0	131.9	59501.9
B01-12T7-1S		10	Tee Weld Joint	FCAW	5		3F	1	7310.0	12.5	91375.0
			Butt Weld Joint	FCAW	5		2G	6	2706.0	131.9	59501.9
B01-12T7-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	3309.2	50.0	165462.2
B01-12T7-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	3309.2	50.0	165462.2
B01-12T7-22	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	4777.8	12.5	59721.9
B01-12T7-22	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	4777.8	12.5	59721.9
B01-12T7-23P		10	Tee Weld Joint	FCAW	5		2F	1	1100.0	12.5	13750.0
B01-12T7-2P		14	Tee Weld Joint	FCAW	5		2F	1	6052.0	12.5	75650.0
B01-12T7-2S		14	Tee Weld Joint	FCAW	5		2F	1	6052.0	12.5	75650.0
B01-12T9-1	L	100*100*8.0	Tee Weld Joint	FCAW		5	2F	1	4044.0	12.5	50550.0
Frame 13											0.0
											0.0
B01-13HTB2-1P		9	Tee Weld Joint	FCAW	5		2F	1	2254.0	12.5	28175.0
B01-13HTB2-1S		9	Tee Weld Joint	FCAW	5		2F	1	2254.0	12.5	28175.0
B01-13T1-1C		9	Tee Weld Joint	FCAW	6		3F	1	22345.3	18.0	402215.1
			Butt Weld Joint	FCAW	5		2G	6	64632.0	131.9	1421185.5
B01-13T1-21	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	3284.0	12.5	41050.0
B01-13T1-21	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	3284.0	12.5	41050.0
B01-13T1-22	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	2550.0	12.5	31875.0
B01-13T1-23	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	2139.0	12.5	26737.5
B01-13T1-24	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	2128.0	12.5	26600.0
B01-13T1-24	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	2128.0	12.5	26600.0
B01-13T1-25	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	2087.0	12.5	26087.5
B01-13T1-25	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	2087.0	12.5	26087.5
B01-13T1-26	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	2012.0	12.5	25150.0
B01-13T1-26	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	2012.0	12.5	25150.0
B01-13T1-27	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	3014.0	12.5	37675.0
B01-13T1-27	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	3014.0	12.5	37675.0
B01-13T1-28	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	2834.0	12.5	35425.0
B01-13T1-28	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	2834.0	12.5	35425.0
B01-13T1-29	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	795.0	12.5	9937.5
B01-13T1-29	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	795.0	12.5	9937.5
B01-13T1-2C		9	Tee Weld Joint	FCAW	6		3F	1	17742.7	18.0	319369.0
			Butt Weld Joint	FCAW	5		2G	6	4998.0	131.9	109900.4
B01-13T1-30S		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-13T1-31S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-13T1-32P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-13T1-32S		10	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-13T1-33P		10	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-13T1-33S		10	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-13T1-34P		10	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-13T1-34S		10	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-13T1-35P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-13T1-35P		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-13T1-35P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-13T1-35S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-13T1-35S		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-13T1-35S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-13T1-36	L	100*100*8.0	Tee Weld Joint	FCAW		5	2F	1	551.0	0.0	0.0
B01-13T1-36	L	100*100*8.0	Tee Weld Joint	FCAW		5	2F	1	551.0	0.0	0.0
B01-13T1-37	L	100*100*8.0	Tee Weld Joint	FCAW		5	2F	1	664.0	0.0	0.0
B01-13T1-37	L	100*100*8.0	Tee Weld Joint	FCAW		5	2F	1	664.0	0.0	0.0
B01-13T1-38	L	100*100*8.0	Tee Weld Joint	FCAW		5	2F	1	1642.0	0.0	0.0
B01-13T1-39	L	100*100*8.0	Tee Weld Joint	FCAW		5	2F	1	1642.0	0.0	0.0
B01-13T1-3C		9	Tee Weld Joint	FCAW	6		3F	1	9745.3	18.0	175415.1
			Butt Weld Joint	FCAW	5		3G	3	6423.0	12.5	26762.5
B01-13T1-40	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	382.0	0.0	0.0
B01-13T1-41	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	1720.0	0.0	0.0
B01-13T1-42	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	1720.0	0.0	0.0
B01-13T1-43P		9	Tee Weld Joint	FCAW	5		3F	1	1754.0	12.5	21925.0
B01-13T1-44P		10	Tee Weld Joint	FCAW	5		3F	1	1754.0	12.5	21925.0
B01-13T1-45P		10	Tee Weld Joint	FCAW	5		3F	1	1754.0	12.5	21925.0
B01-13T1-4C		9	Tee Weld Joint	FCAW	6		2F	1	5116.6	18.0	92098.8
B01-13XT1-1P		10	Tee Weld Joint	FCAW	5		2F	1	1600.0	12.5	20000.0
									0.0	0.0	0.0

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las	Luas Permukaan	Volume
					Double Continues Weld	Slag Intermit Weld					
	(mm)	(mm)			(mm)	(mm ²)			(mm ³)		
B01-1LB1-1P		9	Tee Weld Joint	FCAW	5		2F	1	1160.0	12.5	14500.0
			Lapped Weld Joint	SMAW	5		3F	1	470.0	12.5	5875.0
B01-1LB1-1S		9	Tee Weld Joint	FCAW	5		2F	1	1160.0	12.5	14500.0
			Lapped Weld Joint	SMAW	5		3F	1	470.0	12.5	5875.0
B01-1LB2-1P		14	Tee Weld Joint	FCAW	5		2F	1	1834.0	12.5	22925.0
B01-1LB2-1S		14	Tee Weld Joint	FCAW	5		3F	1	1834.0	12.5	22925.0
B01-1LB2A-1P		14	Tee Weld Joint	FCAW	5		2F	1	1828.0	12.5	22850.0
B01-1LB2A-1S		14	Tee Weld Joint	FCAW	5		3F	1	1828.0	12.5	22850.0
B01-2BL1A1-1P		14	Tee Weld Joint	FCAW	5		2F	1	3524.0	12.5	44050.0
			Corner Weld Joint	FCAW	5		3F	1	685.0	12.5	8562.5
B01-2BL1A1-1S		14	Tee Weld Joint	FCAW	5		2F	1	3524.0	12.5	44050.0
			Corner Weld Joint	FCAW	5		3F	1	685.0	12.5	8562.5
B01-2BL1A1-21	FB	150*16.0	Tee Weld Joint	FCAW	5		2F	1	600.0	12.5	7500.0
B01-2BL1A1-21	FB	150*16.0	Tee Weld Joint	FCAW	5		2F	1	600.0	12.5	7500.0
B01-2BL1A-1P		14	Tee Weld Joint	FCAW	5		2F	1	3856.0	12.5	48200.0
B01-2BL1A-1S		14	Tee Weld Joint	FCAW	5		2F	1	3856.0	12.5	48200.0
B01-2BL1A-21	FB	150*16.0	Tee Weld Joint	FCAW	5		2F	1	2540.0	12.5	31750.0
B01-2BL1A-21	FB	150*16.0	Tee Weld Joint	FCAW	5		2F	1	2540.0	12.5	31750.0
B01-2BL1B1-1P		14	Tee Weld Joint	FCAW	5		2F	1	3524.0	12.5	44050.0
			Corner Weld Joint	FCAW	5		3F	1	685.0	12.5	8562.5
B01-2BL1B1-1S		14	Tee Weld Joint	FCAW	5		2F	1	3524.0	12.5	44050.0
			Corner Weld Joint	FCAW	5		3F	1	685.0	12.5	8562.5
B01-2BL1B1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	600.0	50.0	30000.0
B01-2BL1B1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	600.0	50.0	30000.0
B01-2BL1B-1P		14	Tee Weld Joint	FCAW	9		2F	1	3856.0	40.5	156168.0
B01-2BL1B-1S		14	Tee Weld Joint	FCAW	9		2F	1	3856.0	40.5	156168.0
B01-2BL1B-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	2540.0	50.0	127000.0
B01-2BL1B-21	FB	150*16.0	Tee Weld Joint	FCAW	10		2F	1	2540.0	50.0	127000.0
									0.0	0.0	0.0
B01-CF1A-1P		10	Tee Weld Joint	FCAW	5		3F	1	10330.0	12.5	129125.0
			Butt Weld Joint	FCAW	5		2G	6	1818.0	131.9	39975.8
B01-CF1A-1S		10	Tee Weld Joint	FCAW	5		3F	1	10330.0	12.5	129125.0
			Butt Weld Joint	FCAW	5		2G	6	1818.0	131.9	39975.8
B01-CF1A-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6586.2	12.5	82327.3
B01-CF1A-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6586.2	12.5	82327.3
B01-CF1B-1P		10	Tee Weld Joint	FCAW	5		2F	1	2646.0	12.5	33075.0
B01-CF1B-1S		10	Tee Weld Joint	FCAW	5		2F	1	2646.0	12.5	33075.0
B01-CF1B-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	2228.0	12.5	27849.5
B01-CF1B-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	2228.0	12.5	27849.5
B01-CF1B-22P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-CF1B-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-CF2A-1P		10	Tee Weld Joint	FCAW	5		3F	1	10330.0	12.5	129125.0
			Butt Weld Joint	FCAW	5		2G	6	1818.0	131.9	39975.8
B01-CF2A-1S		10	Tee Weld Joint	FCAW	5		3F	1	10330.0	12.5	129125.0
			Butt Weld Joint	FCAW	5		2G	6	1818.0	131.9	39975.8
B01-CF2A-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6586.2	12.5	82327.3
B01-CF2A-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6586.2	12.5	82327.3
B01-CF2B-1P		10	Tee Weld Joint	FCAW	5		2F	1	2646.0	12.5	33075.0
B01-CF2B-1S		10	Tee Weld Joint	FCAW	5		2F	1	2646.0	12.5	33075.0
B01-CF2B-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	2228.0	12.5	27849.5
B01-CF2B-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	2228.0	12.5	27849.5
B01-CF2B-22P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-CF2B-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-CF3A-1P		10	Tee Weld Joint	FCAW	5		3F	1	10424.0	12.5	130300.0
			Butt Weld Joint	FCAW	5		2G	6	1818.0	131.9	39975.8
B01-CF3A-1S		10	Tee Weld Joint	FCAW	5		3F	1	10424.0	12.5	130300.0
			Butt Weld Joint	FCAW	5		2G	6	1818.0	131.9	39975.8
B01-CF3A-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6586.2	12.5	82327.3
B01-CF3A-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6586.2	12.5	82327.3
B01-CF3B-1P		10	Tee Weld Joint	FCAW	5		2F	1	2544.0	12.5	31800.0
B01-CF3B-1S		10	Tee Weld Joint	FCAW	5		2F	1	2544.0	12.5	31800.0
B01-CF3B-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1960.0	12.5	24500.0
B01-CF3B-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1960.0	12.5	24500.0
B01-CF3B-22P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-CF3B-22S		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-CF3C-1P		10	Tee Weld Joint	FCAW	5		2F	1	3526.0	12.5	44075.0
B01-CF3C-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1840.0	12.5	23000.0
B01-CF3D-1P		10	Tee Weld Joint	FCAW	5		2F	1	3188.0	12.5	39850.0
B01-CF3D-1S		10	Tee Weld Joint	FCAW	5		2F	1	3188.0	12.5	39850.0
B01-CF3D-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1940.0	12.5	24250.0
B01-CF3D-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1940.0	12.5	24250.0
B01-CF3E-1S		10	Tee Weld Joint	FCAW	5		2F	1	2712.0	12.5	33900.0
B01-CF3E-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1600.0	12.5	20000.0
B01-CF4A-1P		10	Tee Weld Joint	FCAW	5		3F	1	10424.0	12.5	130300.0
			Butt Weld Joint	FCAW	5		2G	6	1818.0	131.9	39975.8
B01-CF4A-1S		10	Tee Weld Joint	FCAW	5		3F	1	10424.0	12.5	130300.0
			Butt Weld Joint	FCAW	5		2G	6	1818.0	131.9	39975.8
B01-CF4A-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6586.2	12.5	82327.3
B01-CF4A-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6586.2	12.5	82327.3
B01-CF4B-1P		10	Tee Weld Joint	FCAW	5		2F	1	2544.0	12.5	31800.0
B01-CF4B-1S		10	Tee Weld Joint	FCAW	5		2F	1	2544.0	12.5	31800.0
B01-CF4B-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1960.0	12.5	24500.0
B01-CF4B-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1960.0	12.5	24500.0
B01-CF4B-22P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-CF4B-22S		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-CF4C-1P		10	Tee Weld Joint	FCAW	5		2F	1	3526.0	12.5	44075.0
B01-CF4C-1S		10	Tee Weld Joint	FCAW	5		2F	1	3526.0	12.5	44075.0
B01-CF4C-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1840.0	12.5	23000.0
B01-CF4C-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1840.0	12.5	23000.0

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
	(mm)										
B01-CF4D-1P		10	Tee Weld Joint	FCAW	5		2F	1	3188.0	12.5	39850.0
B01-CF4D-1S		10	Tee Weld Joint	FCAW	5		2F	1	3188.0	12.5	39850.0
B01-CF4D-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1940.0	12.5	24250.0
B01-CF4D-2I	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1940.0	12.5	24250.0
B01-CF5A-1P		10	Tee Weld Joint	FCAW	5		3F	1	10424.0	12.5	130300.0
			Butt Weld Joint	FCAW	5		2G	6	1818.0	131.9	39975.8
B01-CF5A-1S		10	Tee Weld Joint	FCAW	5		3F	1	10424.0	12.5	130300.0
			Butt Weld Joint	FCAW	5		2G	6	1818.0	131.9	39975.8
B01-CF5A-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6586.2	12.5	82327.3
B01-CF5A-2I	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6586.2	12.5	82327.3
B01-CF5B-1P		10	Tee Weld Joint	FCAW	5		2F	1	2544.0	12.5	31800.0
B01-CF5B-1S		10	Tee Weld Joint	FCAW	5		2F	1	2544.0	12.5	31800.0
B01-CF5B-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1960.0	12.5	24500.0
B01-CF5B-2I	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1960.0	12.5	24500.0
B01-CF5B-22P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-CF5B-22S		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-CF5C-1P		10	Tee Weld Joint	FCAW	5		2F	1	3526.0	12.5	44075.0
B01-CF5C-1S		10	Tee Weld Joint	FCAW	5		2F	1	3526.0	12.5	44075.0
B01-CF5C-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1840.0	12.5	23000.0
B01-CF5C-2I	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1840.0	12.5	23000.0
B01-CF5D-1P		10	Tee Weld Joint	FCAW	5		2F	1	3188.0	12.5	39850.0
B01-CF5D-1S		10	Tee Weld Joint	FCAW	5		2F	1	3188.0	12.5	39850.0
B01-CF5D-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1940.0	12.5	24250.0
B01-CF5D-2I	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1940.0	12.5	24250.0
B01-CF6A-1P		10	Tee Weld Joint	FCAW	5		3F	1	10424.0	12.5	130300.0
B01-CF6A-1S		10	Tee Weld Joint	FCAW	5		3F	1	10424.0	12.5	130300.0
B01-CF6A-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6586.2	12.5	82327.3
B01-CF6A-2I	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6586.2	12.5	82327.3
B01-CF6A-22P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-CF6A-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
									0.0	0.0	0.0
B01-CG1-1C		10	Tee Weld Joint	FCAW	6		2F	1	13581.8	18.0	244472.6
B01-CG1-21	FB	150*16.0	Tee Weld Joint	FCAW	5		2F	1	5230.0	12.5	65375.0
B01-CG1-22	FB	150*16.0	Tee Weld Joint	FCAW	5		2F	1	5340.1	12.5	66751.1
B01-CG1-23P		10	Tee Weld Joint	FCAW	5		2F	1	1200.0	12.5	15000.0
B01-CG2-1C		10	Tee Weld Joint	FCAW	6		2F	1	12460.3	18.0	224284.6
B01-CG2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	2949.8	12.5	36872.6
B01-CG2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	5278.4	12.5	65979.9
B01-CG2-23	FB	100*16.0	Tee Weld Joint	FCAW	5		2F	1	2424.4	12.5	30304.4
B01-CG2-24S		10	Tee Weld Joint	FCAW	5		2F	1	1200.0	12.5	15000.0
B01-CG3-1C		9	Tee Weld Joint	FCAW	6		3F	1	12980.0	18.0	233640.0
			Butt Weld Joint	FCAW	5		2G	6	6222.0	131.9	136814.8
B01-CG3-21	L	100*100*8.0	Tee Weld Joint	FCAW		5	2F	1	3294.0	12.5	41175.0
B01-CG3-22	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	315.0	12.5	3937.5
B01-CG3-23	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	517.0	12.5	6462.5
B01-CG3-24	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	701.0	12.5	8762.5
B01-CG3-25	L	100*100*8.0	Tee Weld Joint	FCAW		5	2F	1	1737.0	12.5	21712.5
B01-CG3-2C		10	Tee Weld Joint	FCAW	6		3F	1	4712.0	18.0	84816.0
B01-CG4-1C		10	Tee Weld Joint	FCAW	5		3F	1	5192.0	12.5	64900.0
B01-CG4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	4134.0	12.5	51675.0
B01-CG4-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
B01-CG4-23P		9	Tee Weld Joint	FCAW	5		3F	1	1000.0	12.5	12500.0
									0.0	0.0	0.0
B01-COV10T1-1P		9	Tee Weld Joint	FCAW	5		2F	1	1680.0	12.5	21000.0
B01-COV10T1-1S		9	Tee Weld Joint	FCAW	5		2F	1	1680.0	12.5	21000.0
B01-COV10T1-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	600.0	12.5	7500.0
B01-COV10T1-2I	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	600.0	12.5	7500.0
B01-COV10T2-1P		9	Tee Weld Joint	FCAW	5		2F	1	4200.0	12.5	52500.0
B01-COV10T2-1S		9	Tee Weld Joint	FCAW	5		2F	1	4200.0	12.5	52500.0
B01-COV10T2-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2800.0	12.5	35000.0
B01-COV10T2-2I	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2800.0	12.5	35000.0
B01-COV10T3-1P		9	Tee Weld Joint	FCAW	5		2F	1	1680.0	12.5	21000.0
B01-COV10T3-1S		9	Tee Weld Joint	FCAW	5		2F	1	1680.0	12.5	21000.0
B01-COV10T3-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	600.0	12.5	7500.0
B01-COV10T3-2I	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	600.0	12.5	7500.0
B01-COV11T1-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1140.0	12.5	14250.0
B01-COV11T1-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1140.0	12.5	14250.0
B01-COV11T2-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	2100.0	12.5	26250.0
B01-COV11T2-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	2100.0	12.5	26250.0
B01-COV11T3-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1140.0	12.5	14250.0
B01-COV11T3-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1140.0	12.5	14250.0
B01-COV5T1-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1140.0	12.5	14250.0
B01-COV5T1-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1140.0	12.5	14250.0
B01-COV5T2-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	2100.0	12.5	26250.0
B01-COV5T2-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	2100.0	12.5	26250.0
B01-COV5T3-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1140.0	12.5	14250.0
B01-COV5T3-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1140.0	12.5	14250.0
B01-COV6T1-1P		9	Tee Weld Joint	FCAW	5		2F	1	1680.0	12.5	21000.0
B01-COV6T1-1S		9	Tee Weld Joint	FCAW	5		2F	1	1680.0	12.5	21000.0
B01-COV6T1-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	600.0	12.5	7500.0
B01-COV6T1-2I	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	600.0	12.5	7500.0
B01-COV6T2-1P		9	Tee Weld Joint	FCAW	5		2F	1	4200.0	12.5	52500.0
B01-COV6T2-1S		9	Tee Weld Joint	FCAW	5		2F	1	4200.0	12.5	52500.0
B01-COV6T2-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2800.0	12.5	35000.0
B01-COV6T2-2I	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2800.0	12.5	35000.0
B01-COV6T3-1P		9	Tee Weld Joint	FCAW	5		2F	1	1680.0	12.5	21000.0
B01-COV6T3-1S		9	Tee Weld Joint	FCAW	5		2F	1	1680.0	12.5	21000.0
B01-COV6T3-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	600.0	12.5	7500.0
B01-COV6T3-2I	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	600.0	12.5	7500.0

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
	(mm)										
B01-COV7T1-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	762.5	12.5	9531.3
B01-COV7T1-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	762.5	12.5	9531.3
B01-COV7T2-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1200.0	12.5	15000.0
B01-COV7T2-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1200.0	12.5	15000.0
B01-COV7T3-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	700.0	12.5	8750.0
B01-COV7T3-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	700.0	12.5	8750.0
B01-COV7T4-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	2400.0	12.5	30000.0
B01-COV7T4-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	2400.0	12.5	30000.0
B01-COV7T5-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1400.0	12.5	17500.0
B01-COV7T5-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1400.0	12.5	17500.0
B01-COV8T1-1P		9	Tee Weld Joint	FCAW		5	2F	1	2905.0	12.5	36312.5
B01-COV8T1-1S		9	Tee Weld Joint	FCAW		5	2F	1	2905.0	12.5	36312.5
B01-COV8T1-21	FB	75*10.0	Tee Weld Joint	FCAW		5	2F	1	2500.0	12.5	31250.0
B01-COV8T1-21	FB	75*10.0	Tee Weld Joint	FCAW		5	2F	1	2500.0	12.5	31250.0
B01-COV8T2-1P		9	Tee Weld Joint	FCAW		5	2F	1	4200.0	12.5	52500.0
B01-COV8T2-1S		9	Tee Weld Joint	FCAW		5	2F	1	4200.0	12.5	52500.0
B01-COV8T2-21	FB	75*10.0	Tee Weld Joint	FCAW		5	2F	1	2600.0	12.5	32500.0
B01-COV8T2-21	FB	75*10.0	Tee Weld Joint	FCAW		5	2F	1	2600.0	12.5	32500.0
B01-COV8T3-1P		9	Tee Weld Joint	FCAW		5	2F	1	2905.0	12.5	36312.5
B01-COV8T3-1S		9	Tee Weld Joint	FCAW		5	2F	1	2905.0	12.5	36312.5
B01-COV8T3-21	FB	75*10.0	Tee Weld Joint	FCAW		5	2F	1	2500.0	12.5	31250.0
B01-COV8T3-21	FB	75*10.0	Tee Weld Joint	FCAW		5	2F	1	2500.0	12.5	31250.0
B01-COV9T1-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1525.0	12.5	19062.5
B01-COV9T1-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1525.0	12.5	19062.5
B01-COV9T2-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	2400.0	12.5	30000.0
B01-COV9T2-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	2400.0	12.5	30000.0
B01-COV9T3-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1400.0	12.5	17500.0
B01-COV9T3-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1400.0	12.5	17500.0
B01-COV9T4-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	2400.0	12.5	30000.0
B01-COV9T4-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	2400.0	12.5	30000.0
B01-COV9T5-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1400.0	12.5	17500.0
B01-COV9T5-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	2F	1	1400.0	12.5	17500.0
											0.0
B01-COVZPL- A1P			Tee Weld Joint	FCAW		5		1	11920.0	12.5	149000.0
			Butt Weld Joint	FCAW		5	6G	1	3624.0	214.1	775717.6
B01-COVZPL- A2P			Tee Weld Joint	FCAW		5	6F	1	11920.0	12.5	149000.0
B01-COVZPL- A1S			Tee Weld Joint	FCAW		5	6F	1	11920.0	12.5	149000.0
			Butt Weld Joint	FCAW		5	6G	6	21744.0	214.1	775717.6
B01-COVZPL- A2P			Tee Weld Joint	FCAW		5	6F	1	11920.0	12.5	149000.0
B01-COVZPL1-1P		10	Tee Weld Joint	FCAW		5	6F	1	5960.0	12.5	74500.0
B01-COVZPL1-1S		10	Tee Weld Joint	FCAW		5	6F	1	5960.0	12.5	74500.0
B01-COVZPL1-2P		10	Tee Weld Joint	FCAW		5	6F	1	5960.0	12.5	74500.0
B01-COVZPL1-2S		10	Tee Weld Joint	FCAW		5	6F	1	5960.0	12.5	74500.0
B01-COVZPL1-3P		10	Tee Weld Joint	FCAW		5	6F	1	5960.0	12.5	74500.0
B01-COVZPL1-3S		10	Tee Weld Joint	FCAW		5	6F	1	5960.0	12.5	74500.0
B01-COVZPL1-4P		10	Tee Weld Joint	FCAW		5	6F	1	5960.0	12.5	74500.0
B01-COVZPL1-4S		10	Tee Weld Joint	FCAW		5	6F	1	5960.0	12.5	74500.0
											0.0
B01-COVL1-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	6F	1	2680.0	12.5	33500.0
B01-COVL1-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	6F	1	2680.0	12.5	33500.0
B01-COVL2-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	6F	1	3780.0	12.5	47250.0
B01-COVL2-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	6F	1	3780.0	12.5	47250.0
B01-COVL3-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	6F	1	3780.0	12.5	47250.0
B01-COVL3-0	L	75*75*6.0	Tee Weld Joint	FCAW		5	6F	1	3780.0	12.5	47250.0
B01-COVL40	L	75*75*6.0	Tee Weld Joint	FCAW		5	6F	1	2680.0	12.5	33500.0
B01-COVL40	L	75*75*6.0	Tee Weld Joint	FCAW		5	6F	1	2680.0	12.5	33500.0
											0.0
B01-DPC01-1C		12	Tee Weld Joint	FCAW		6	6F	1	2293.4	18.0	41280.5
B01-DPC02-1C		16	Tee Weld Joint	FCAW		10	6F	1	2293.4	50.0	114668.1
											0.0
B01-SGS1-1P		14	Tee Weld Joint	FCAW		9	2F	1	4032.0	40.5	163296.0
			Corner Weld Joint	FCAW		9	3F	1	669.0	40.5	27094.5
B01-SGS1-1S		14	Tee Weld Joint	FCAW		9	2F	1	4032.0	40.5	163296.0
			Corner Weld Joint	FCAW		9	3F	1	669.0	40.5	27094.5
B01-SGS1-21	FB	150*16.0	Tee Weld Joint	FCAW		10	2F	1	600.0	50.0	30000.0
B01-SGS1-21	FB	150*16.0	Tee Weld Joint	FCAW		10	2F	1	600.0	50.0	30000.0
B01-SGS2-1P		14	Tee Weld Joint	FCAW		9	2F	1	3856.0	40.5	156168.0
B01-SGS2-1S		14	Tee Weld Joint	FCAW		9	2F	1	3856.0	40.5	156168.0
B01-SGS2-21	FB	150*16.0	Tee Weld Joint	FCAW		10	2F	1	2540.0	50.0	127000.0
B01-SGS2-21	FB	150*16.0	Tee Weld Joint	FCAW		10	2F	1	2540.0	50.0	127000.0
B01-SGX1-1P		10	Tee Weld Joint	FCAW		5	2F	1	2474.0	12.5	30925.0
B01-SGX1-1S		10	Tee Weld Joint	FCAW		5	2F	1	2474.0	12.5	30925.0
B01-SGX1-21	FB	100*12.0	Tee Weld Joint	FCAW		5	2F	1	1652.2	12.5	20652.8
B01-SGX1-21	FB	100*12.0	Tee Weld Joint	FCAW		5	2F	1	1652.2	12.5	20652.8
B01-SGX2-1P		10	Tee Weld Joint	FCAW		5	2F	1	4738.0	12.5	59225.0
B01-SGX2-1S		10	Tee Weld Joint	FCAW		5	2F	1	4738.0	12.5	59225.0
B01-SGX2-21	FB	100*12.0	Tee Weld Joint	FCAW		5	2F	1	4048.0	12.5	50600.0
B01-SGX2-21	FB	100*12.0	Tee Weld Joint	FCAW		5	2F	1	4048.0	12.5	50600.0
B01-SGX2-22P		9	Tee Weld Joint	FCAW		5	2F	1	1000.0	12.5	12500.0
B01-SGX2-22S		9	Tee Weld Joint	FCAW		5	2F	1	1000.0	12.5	12500.0
B01-SGX2-23P		9	Tee Weld Joint	FCAW		5	2F	1	1000.0	12.5	12500.0
B01-SGX2-23S		9	Tee Weld Joint	FCAW		5	2F	1	1000.0	12.5	12500.0
B01-SGX3-1P		10	Tee Weld Joint	FCAW		5	2F	1	2530.0	12.5	31625.0
B01-SGX3-1S		10	Tee Weld Joint	FCAW		5	2F	1	2530.0	12.5	31625.0
B01-SGX3-21	FB	100*12.0	Tee Weld Joint	FCAW		5	2F	1	1554.7	12.5	19433.8
B01-SGX3-21	FB	100*12.0	Tee Weld Joint	FCAW		5	2F	1	1554.7	12.5	19433.8
B01-SGX4-1P		10	Tee Weld Joint	FCAW		5	2F	1	3154.0	12.5	39425.0
B01-SGX4-1S		10	Tee Weld Joint	FCAW		5	2F	1	3154.0	12.5	39425.0
B01-SGX4-21	FB	100*12.0	Tee Weld Joint	FCAW		5	2F	1	2800.0	12.5	35000.0

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las	Luas Permukaan	Volume
					Double Continues Weld	Slag Intermit Weld					
	(mm)				(mm)	(mm ²)			(mm ³)		
B01-SGX4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	2800.0	12.5	35000.0
B01-SGX4-22P		9	Tee Weld Joint	FCAW	5		2F	1	840.0	12.5	10500.0
B01-SGX4-22S		9	Tee Weld Joint	FCAW	5		2F	1	840.0	12.5	10500.0
B01-SGX4-23P		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-SGX4-23S		9	Tee Weld Joint	FCAW	5		2F	1	1000.0	12.5	12500.0
B01-SLB01-1P		9	Tee Weld Joint	FCAW	5		3F	1	956.0	12.5	11950.0
B01-SLB01-1S		9	Tee Weld Joint	FCAW	5		2F	1	956.0	12.5	11950.0
B01-ZPL1-1P		20	Tee Weld Joint	FCAW	12.5		6F	1	9958.8	78.1	778035.1
B01-ZPL1-1S		20	Tee Weld Joint	FCAW	12.5		6F	1	9958.8	78.1	778035.1
B01-ZPL2-1P		20	Tee Weld Joint	FCAW	12.5		6F	1	9958.8	78.1	778035.1
B01-ZPL2-1S		20	Tee Weld Joint	FCAW	12.5		6F	1	9958.8	78.1	778035.1
ERECTION		16	Butt Weld Joint	SMAW	10		1G	1	1000.0	268.5	268513.8
ERECTION		16	Butt Weld Joint	SMAW	10		3G	1	1000.0	268.5	268513.8
							Total		3449057.6		

ASSEMBLY PART LIST BLOCK B02											
HARBOUR TUG 2x2200 HP PT.DUMAS											
Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermit Weld					
B02_A1-1P		10	Butt Weld Joint	FCAW	6.5		2G	6	131694.76	131.93	2895820.78
B02_A1-1S		10	Butt Weld Joint	FCAW	6.5		2G	6	131694.76	131.93	2895820.78
B02_A2-1P		10	Butt Weld Joint	FCAW	6.5		2G	6	98960.75	131.93	2176036.40
B02_A3-1S		10	Butt Weld Joint	FCAW	6.5		2G	6	53106.18	131.93	1167745.50
B02_B1-1P		10	Butt Weld Joint	FCAW	6.5		2G	6	81633.70	131.93	1795033.98
B02_B1-1S		10	Butt Weld Joint	FCAW	6.5		2G	6	81633.70	131.93	1795033.98
B02_B2-1P		10	Butt Weld Joint	FCAW	6.5		2G	6	51101.38	131.93	1123662.27
B02_B3-1S		14	Butt Weld Joint	FCAW	9		2G	9	65650.41	214.05	1561386.40
B02_B4-1S		10	Butt Weld Joint	FCAW	6.5		2G	6	39981.92	131.93	879157.78
B02_B5-1P		14	Butt Weld Joint	FCAW	9		2G	9	26460.00	214.05	629307.29
B02_B5-1S		14	Butt Weld Joint	FCAW	9		2G	9	26460.00	214.05	629307.29
B02_C1-1P		10	Butt Weld Joint	FCAW	6.5		2G	6	122983.65	131.93	2704273.20
B02_C1-1S		10	Butt Weld Joint	FCAW	6.5		2G	6	122983.65	131.93	2704273.20
B02_C2A-1P		10	Butt Weld Joint	FCAW	6.5		2G	6	94083.10	131.93	2068782.21
B02_C2A-1S		10	Butt Weld Joint	FCAW	6.5		2G	6	94083.10	131.93	2068782.21
B02_C2B-1P		14	Butt Weld Joint	FCAW	9		2G	9	32742.00	214.05	778714.26
B02_C2B-1S		14	Butt Weld Joint	FCAW	9		2G	9	32742.00	214.05	778714.26
B02_C2C-1P		10	Butt Weld Joint	FCAW	6.5		2G	6	23616.00	131.93	519289.47
B02_C2C-1S		10	Butt Weld Joint	FCAW	6.5		2G	6	23616.00	131.93	519289.47
B02_D1-1P		10	Butt Weld Joint	FCAW	6.5		2G	6	65422.28	131.93	1438562.92
B02_D1-1S		10	Butt Weld Joint	FCAW	6.5		2G	6	65422.28	131.93	1438562.92
B02_D2A-1P		10	Butt Weld Joint	FCAW	6.5		2G	6	32274.00	131.93	709669.22
B02_D2B-1P		14	Butt Weld Joint	FCAW	6.5		2G	9	21969.00	214.05	522496.29
B02_D2C-1P		10	Butt Weld Joint	FCAW	6.5		2G	6	18642.00	131.93	409916.76
B02_D2D-1S		14	Butt Weld Joint	FCAW	9.5		2G	9	16236.00	214.05	386146.38
B02_D2E-1S		10	Butt Weld Joint	FCAW	6.5		2G	6	26688.00	131.93	586839.32
B02_E1-1P		10	Butt Weld Joint	FCAW	6.5		2G	6	68642.78	131.93	1509378.13
B02_E1-1S		10	Butt Weld Joint	FCAW	6.5		2G	6	68642.78	131.93	1509378.13
B02_E2-1P		10	Butt Weld Joint	FCAW	6.5		2G	6	57232.85	131.93	1258486.48
B02_E2-1S		10	Butt Weld Joint	FCAW	6.5		2G	6	57232.85	131.93	1258486.48
B02_F1-1P		14	Butt Weld Joint	FCAW	9.5		2G	9	91764.09	214.05	2182457.07
B02_F1-1S		14	Butt Weld Joint	FCAW	9.5		2G	9	91764.09	214.05	2182457.07
B02_F2-1P		14	Butt Weld Joint	FCAW	9.5		2G	9	72644.27	214.05	1727723.77
B02_F2-1S		14	Butt Weld Joint	FCAW	9.5		2G	9	72644.27	214.05	1727723.77
B02_KE1-1C		14	Butt Weld Joint	FCAW	9.5		2G	9	85365.51	214.05	2030277.27
B02_KE2-1C		14	Butt Weld Joint	FCAW	9.5		2G	9	74700.36	214.05	1776624.43
B02_MDK1A-1C		9	Butt Weld Joint	FCAW	6		2G	6	81180.00	131.93	1785057.55
B02_MDK2A-1P		9	Butt Weld Joint	FCAW	6		2G	6	51240.00	131.93	1126170.38
B02_MDK2B-1S		9	Butt Weld Joint	FCAW	6		2G	6	53466.00	131.93	1175657.64
B02_MDK3A-1P		9	Butt Weld Joint	FCAW	6		2G	6	80884.23	131.93	1778553.86
B02_MDK3A-1S		9	Butt Weld Joint	FCAW	6		2G	6	80884.23	131.93	1778553.86
B02_MDK3B-1P		12	Butt Weld Joint	FCAW	7.5		2G	7	20598.81	170.41	501464.76
B02_MDK3B-1S		12	Butt Weld Joint	FCAW	7.5		2G	7	20598.81	170.41	501464.76
B02_MDK3C-1P		9	Butt Weld Joint	FCAW	6		2G	6	108003.44	131.93	2374875.04
B02_MDK3C-1S		9	Butt Weld Joint	FCAW	6		2G	6	108003.44	131.93	2374875.04
B02_MDK3D-1P		12	Butt Weld Joint	FCAW	7.5		2G	7	27936.33	170.41	680091.98
B02_MDK3D-1S		12	Butt Weld Joint	FCAW	7.5		2G	7	27936.33	170.41	680091.98
B02_MDK3E-1P		12	Butt Weld Joint	FCAW	7.5		2G	7	20515.56	170.41	499438.21
B02_MDK3E-1S		12	Butt Weld Joint	FCAW	7.5		2G	7	20515.56	170.41	499438.21
B02-10LB1-1P		9	Lapped Weld Joint	SMAW	5		2F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		3F	1	500.00	12.50	6250.00
B02-10LB1-1S		9	Lapped Weld Joint	SMAW	5		2F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		3F	1	500.00	12.50	6250.00
B02-10LB2-1P		9	Lapped Weld Joint	SMAW	5		2F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		3F	1	1124.00	12.50	14050.00
B02-10LB2-1S		9	Lapped Weld Joint	SMAW	5		2F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		3F	1	1124.00	12.50	14050.00
									0.00	0.00	0.00
B02-14B1-1P		9	Lapped Weld Joint	SMAW	5		3F	1	293.00	12.50	3662.50
			Tee Weld Joint	FCAW	5		2F	1	966.00	12.50	12075.00
B02-14B1-1S		9	Lapped Weld Joint	SMAW	5		3F	1	293.00	12.50	3662.50
			Tee Weld Joint	FCAW	5		2F	1	966.00	12.50	12075.00
B02-14B2-1P		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-14B2-1S		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-14B3-1P		9	Tee Weld Joint	FCAW	5		2F	1	780.00	12.50	9750.00
B02-14B3-1S		9	Tee Weld Joint	FCAW	5		2F	1	780.00	12.50	9750.00
B02-14B4-1P		9	Tee Weld Joint	FCAW	5		2F	1	1000.00	12.50	12500.00
B02-14B4-1S		9	Tee Weld Joint	FCAW	5		3F	1	1000.00	12.50	12500.00
B02-14T1-1P		10	Tee Weld Joint	FCAW	5		2F	1	6154.00	12.50	76925.00
B02-14T1-1S		10	Tee Weld Joint	FCAW	5		1F	1	6154.00	12.50	76925.00
B02-14T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		2F	1	1262.00	12.50	15775.00
B02-14T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		2F	1	1262.00	12.50	15775.00
B02-14T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		2F	1	1184.00	12.50	14800.00
B02-14T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		2F	1	1184.00	12.50	14800.00
B02-14T1-23	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-14T1-23	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-14T2-1P		10	Tee Weld Joint	FCAW	5		1F	1	4276.00	12.50	53450.00
B02-14T2-1S		10	Tee Weld Joint	FCAW	5		1F	1	4276.00	12.50	53450.00
B02-14T2-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	1916.00	12.50	23950.00
B02-14T2-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	1916.00	12.50	23950.00
B02-14T3-1P		10	Tee Weld Joint	FCAW	5		1F	1	5702.00	12.50	71275.00
B02-14T3-1S		10	Tee Weld Joint	FCAW	5		1F	1	5702.00	12.50	71275.00
B02-14T3-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	3714.00	12.50	46425.00
B02-14T3-21	FB	150*12.0	Tee Weld Joint	FCAW	5		1F	1	3714.00	12.50	46425.00
B02-14T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	11238.00	12.50	140475.00
B02-14T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	11238.00	12.50	140475.00
B02-14V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	1066.00	12.50	13325.00
B02-14V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	1066.00	12.50	13325.00
B02-14V2-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	2170.00	12.50	27125.00
B02-14V2-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	2170.00	12.50	27125.00
B02-15B1-1P		9	Tee Weld Joint	FCAW	5		3F	1	1000.00	12.50	12500.00
B02-15B1-1S		9	Tee Weld Joint	FCAW	5		2F	1	1000.00	12.50	12500.00
B02-15B2-1P		9	Tee Weld Joint	FCAW	5		3F	1	1000.00	12.50	12500.00
B02-15B2-1S		9	Tee Weld Joint	FCAW	5		2F	1	1000.00	12.50	12500.00
B02-15T1-1P		10	Tee Weld Joint	FCAW	5		1F	1	10174.00	12.50	127175.00

Part name	Ketebalan Plat (mm)		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
B02-15T1-15		10	Tee Weld Joint	FCAW	5		1F	1	10174.00	12.50	127175.00
B02-15T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		2F	1	1330.00	12.50	16625.00
B02-15T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		2F	1	1330.00	12.50	16625.00
B02-15T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		2F	1	1250.00	12.50	15625.00
B02-15T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		2F	1	1250.00	12.50	15625.00
B02-15T1-23	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-15T1-23	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-15T2-1P		10	Tee Weld Joint	FCAW	5		1F	1	4242.00	12.50	53025.00
B02-15T2-15		10	Tee Weld Joint	FCAW	5		1F	1	4242.00	12.50	53025.00
B02-15T2-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	1790.00	12.50	22375.00
B02-15T2-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	1790.00	12.50	22375.00
B02-15T3-1P		10	Tee Weld Joint	FCAW	5		1F	1	8396.00	12.50	104950.00
B02-15T3-15		10	Tee Weld Joint	FCAW	5		1F	1	8396.00	12.50	104950.00
B02-15T3-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	4599.17	12.50	57489.64
B02-15T3-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	4599.17	12.50	57489.64
B02-15T3-23P		9	Tee Weld Joint	FCAW	5		2F	1	3194.00	12.50	39925.00
B02-15T3-23S		9	Tee Weld Joint	FCAW	5		2F	1	3194.00	12.50	39925.00
B02-15T3-2P		10	Butt Weld Joint	FCAW	5		2G	6	3072.00	131.93	67549.85
B02-15T3-2S		10	Butt Weld Joint	FCAW	5		2G	6	3072.00	131.93	67549.85
B02-15T5-1P		9	Tee Weld Joint	FCAW	5		1F	1	7864.00	12.50	98300.00
B02-15T5-15		9	Tee Weld Joint	FCAW	5		1F	1	7864.00	12.50	98300.00
B02-15T5-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	6592.78	12.50	82409.75
B02-15T5-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	6592.78	12.50	82409.75
B02-15T6-1P		9	Tee Weld Joint	FCAW	5		3F	1	1928.00	12.50	24100.00
B02-15T6-15		9	Tee Weld Joint	FCAW	5		3F	1	1928.00	12.50	24100.00
B02-15T6-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	366.00	12.50	4575.00
B02-15T6-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	366.00	12.50	4575.00
B02-15T7-1P		10	Tee Weld Joint	FCAW	5		3F	1	6708.00	12.50	83850.00
B02-15T7-15		10	Tee Weld Joint	FCAW	5		3F	1	6708.00	12.50	83850.00
B02-15T7-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3642.91	12.50	45536.41
B02-15T7-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3642.91	12.50	45536.41
B02-15T7-22	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1785.44	12.50	22317.95
B02-15T7-22	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1785.44	12.50	22317.95
B02-15T7-23P		9	Tee Weld Joint	FCAW	5		2F	1	3194.00	12.50	39925.00
B02-15T7-23S		9	Tee Weld Joint	FCAW	5		2F	1	3194.00	12.50	39925.00
B02-15T7-2P		10	Tee Weld Joint	FCAW	5		3F	1	2360.00	12.50	29500.00
B02-15T7-2S		10	Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
B02-15T7-2S		10	Tee Weld Joint	FCAW	5		3F	1	2360.00	12.50	29500.00
B02-15T7-2S		10	Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
B02-16B1-1P		9	Lapped Weld Joint	SMAW	5		3F	1	293.00	12.50	3662.50
B02-16B1-15		9	Tee Weld Joint	FCAW	5		2F	1	966.00	12.50	12075.00
B02-16B1-15		9	Lapped Weld Joint	SMAW	5		3F	1	293.00	12.50	3662.50
B02-16B2-1P		9	Tee Weld Joint	FCAW	5		2F	1	966.00	12.50	12075.00
B02-16B2-15		9	Tee Weld Joint	FCAW	5		3F	1	1000.00	12.50	12500.00
B02-16B3-1P		9	Tee Weld Joint	FCAW	5		2F	1	1000.00	12.50	12500.00
B02-16B3-15		9	Tee Weld Joint	FCAW	5		2F	1	1000.00	12.50	12500.00
B02-16DBL1-1P		10	Tee Weld Joint	FCAW	5		6G	1	640.00	12.50	8000.00
B02-16DBL1-15		10	Tee Weld Joint	FCAW	5		6G	1	640.00	12.50	8000.00
B02-16DBL1-21	TUBE	165.2*7.1	Tee Weld Joint	FCAW	5		6G	1	1898.00	12.50	23725.00
B02-16DBL1-21	TUBE	165.2*7.1	Tee Weld Joint	FCAW	5		6G	1	1898.00	12.50	23725.00
B02-16DBL1-22P		9	Tee Weld Joint	FCAW	5		2F	1	640.00	12.50	8000.00
B02-16DBL1-22S		9	Tee Weld Joint	FCAW	5		3F	1	640.00	12.50	8000.00
B02-16DBL1-23P		9	Tee Weld Joint	FCAW	5		3F	1	960.00	12.50	12000.00
B02-16DBL1-23P		9	Tee Weld Joint	FCAW	5		3F	1	960.00	12.50	12000.00
B02-16DBL1-23S		9	Tee Weld Joint	FCAW	5		2F	1	960.00	12.50	12000.00
B02-16DBL1-23S		9	Tee Weld Joint	FCAW	5		2F	1	960.00	12.50	12000.00
B02-16DBL2-1P		10	Tee Weld Joint	FCAW	5		6F	1	640.00	12.50	8000.00
B02-16DBL2-15		10	Tee Weld Joint	FCAW	5		6F	1	640.00	12.50	8000.00
B02-16DBL2-21P		9	Tee Weld Joint	FCAW	5		2F	1	702.00	12.50	8775.00
B02-16DBL2-21S		9	Tee Weld Joint	FCAW	5		3F	1	702.00	12.50	8775.00
B02-16T1-1P		10	Tee Weld Joint	FCAW	5		1F	1	10920.00	12.50	136500.00
B02-16T1-15		10	Tee Weld Joint	FCAW	5		1F	1	10920.00	12.50	136500.00
B02-16T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1850.00	12.50	23125.00
B02-16T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1850.00	12.50	23125.00
B02-16T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1770.00	12.50	22125.00
B02-16T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1770.00	12.50	22125.00
B02-16T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1688.00	12.50	21100.00
B02-16T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1688.00	12.50	21100.00
B02-16T2-1P		10	Tee Weld Joint	FCAW	5		1F	1	4468.00	12.50	55850.00
B02-16T2-15		10	Tee Weld Joint	FCAW	5		1F	1	4468.00	12.50	55850.00
B02-16T2-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	1628.00	12.50	20350.00
B02-16T2-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	1628.00	12.50	20350.00
B02-16T3-1P		10	Tee Weld Joint	FCAW	5		1F	1	6168.00	12.50	77100.00
B02-16T3-15		10	Tee Weld Joint	FCAW	5		1F	1	6168.00	12.50	77100.00
B02-16T3-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	4152.00	12.50	51900.00
B02-16T3-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	4152.00	12.50	51900.00
B02-16T3-22	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	1326.00	12.50	16575.00
B02-16T3-22	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	1326.00	12.50	16575.00
B02-16T3-22	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	1326.00	12.50	16575.00
B02-16T3-22	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	1326.00	12.50	16575.00
B02-16T4-1P		9	Tee Weld Joint	FCAW	6		2F	1	15569.08	18.00	280243.49
B02-16T4-15		9	Tee Weld Joint	FCAW	6		3F	1	15569.08	18.00	280243.49
B02-16T4-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	3846.00	12.50	48075.00
B02-16T4-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	3846.00	12.50	48075.00
B02-16T4-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	3698.00	12.50	46225.00
B02-16T4-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	3698.00	12.50	46225.00
B02-16T4-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	3546.00	12.50	44325.00
B02-16T4-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	3546.00	12.50	44325.00
B02-16T4-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	3546.00	12.50	44325.00
B02-16T4-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	3546.00	12.50	44325.00
B02-16T5-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	7212.00	12.50	90150.00
B02-16T5-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	7212.00	12.50	90150.00
B02-16V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	1570.00	12.50	19625.00
B02-16V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	1570.00	12.50	19625.00
B02-17T1-1C		10	Tee Weld Joint	FCAW	6.5		1F	1	13162.00	21.13	278047.25
B02-17T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2360.00	12.50	29500.00
B02-17T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2360.00	12.50	29500.00
B02-17T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2276.00	12.50	28450.00
B02-17T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2276.00	12.50	28450.00
B02-17T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2194.00	12.50	27425.00

Part name	Ketebalan Plat (mm)		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
B02-1771-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2194.00	12.50	27425.00
B02-1772-1P		10	Tee Weld Joint	FCAW	5		2F	1	4442.00	12.50	55525.00
B02-1772-15		10	Tee Weld Joint	FCAW	5		2F	1	4442.00	12.50	55525.00
B02-1772-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	1412.00	12.50	17650.00
B02-1772-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	1412.00	12.50	17650.00
B02-1773-1P		10	Tee Weld Joint	FCAW	5		2F	1	6416.00	12.50	80200.00
			Butt Weld Joint	FCAW	5		2G	7	3570.00	131.93	67285.98
B02-1773-15		10	Tee Weld Joint	FCAW	5		2F	1	6416.00	12.50	80200.00
			Butt Weld Joint	FCAW	5		2G	7	3570.00	131.93	67285.98
B02-1773-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	7944.37	12.50	99304.66
B02-1773-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	7944.37	12.50	99304.66
B02-1773-23P		9	Tee Weld Joint	FCAW	5		2F	1	3045.00	12.50	38062.50
B02-1773-23S		9	Tee Weld Joint	FCAW	5		2F	1	3045.00	12.50	38062.50
B02-1773-2P		10	Tee Weld Joint	FCAW	5		3F	1	4384.00	12.50	54800.00
			Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
B02-1773-2S		10	Tee Weld Joint	FCAW	5		3F	1	4384.00	12.50	54800.00
			Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
B02-1774-1P		9	Tee Weld Joint	FCAW	5		1F	1	8040.00	12.50	100500.00
B02-1774-15		9	Tee Weld Joint	FCAW	5		1F	1	8040.00	12.50	100500.00
B02-1774-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	6812.25	12.50	85153.17
B02-1774-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	6812.25	12.50	85153.17
B02-1776-1P		10	Tee Weld Joint	FCAW	5		2F	1	6894.00	12.50	86175.00
B02-1776-15		10	Tee Weld Joint	FCAW	5		2F	1	6894.00	12.50	86175.00
B02-1776-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3914.53	12.50	48931.64
B02-1776-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3914.53	12.50	48931.64
B02-1776-22P		9	Tee Weld Joint	FCAW	5		2F	1	3045.00	12.50	38062.50
B02-1776-22S		9	Tee Weld Joint	FCAW	5		2F	1	3045.00	12.50	38062.50
									0.00	0.00	0.00
B02-1881-1P		9	Lapped Weld Joint	SMAW	5		3F	1	293.00	12.50	3662.50
			Tee Weld Joint	FCAW	5		2F	1	966.00	12.50	12075.00
B02-1881-15		9	Lapped Weld Joint	SMAW	5		3F	1	293.00	12.50	3662.50
			Tee Weld Joint	FCAW	5		2F	1	966.00	12.50	12075.00
B02-1882-1P		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-1882-15		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-1871-1C		9	Tee Weld Joint	FCAW	5		1F	1	13162.00	12.50	164525.00
B02-1871-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2360.00	12.50	29500.00
B02-1871-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2360.00	12.50	29500.00
B02-1871-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2276.00	12.50	28450.00
B02-1871-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2276.00	12.50	28450.00
B02-1871-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2194.00	12.50	27425.00
B02-1871-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2194.00	12.50	27425.00
B02-1872-1P		12	Tee Weld Joint	FCAW	5		1F	1	4442.00	12.50	55525.00
B02-1872-15		12	Tee Weld Joint	FCAW	5		1F	1	4442.00	12.50	55525.00
B02-1872-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1412.00	12.50	17650.00
B02-1872-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1412.00	12.50	17650.00
B02-1873-1P		9	Tee Weld Joint	FCAW	5		1F	1	5702.00	12.50	71275.00
B02-1873-15		9	Tee Weld Joint	FCAW	5		1F	1	5702.00	12.50	71275.00
B02-1874-1C		9	Tee Weld Joint	FCAW	5		2F	1	8800.00	12.50	110000.00
B02-1874-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7534.00	12.50	94175.00
B02-1875-1	L	100*100*8.0	Tee Weld Joint	FCAW		5	1F	1	3696.00	0.00	0.00
B02-1875-1	L	100*100*8.0	Tee Weld Joint	FCAW		5	1F	1	3696.00	0.00	0.00
B02-18V1-0	L	125*125*10.0	Tee Weld Joint	FCAW		5	3F	1	2193.00	0.00	0.00
B02-18V1-0	L	125*125*10.0	Tee Weld Joint	FCAW		5	3F	1	2193.00	0.00	0.00
									0.00	0.00	0.00
Frame 19									0.00	0.00	0.00
									0.00	0.00	0.00
B02-1971-1P		9	Tee Weld Joint	FCAW	5		1F	1	13162.00	12.50	164525.00
B02-1971-15		9	Tee Weld Joint	FCAW	5		1F	1	13162.00	12.50	164525.00
B02-1971-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2360.00	12.50	29500.00
B02-1971-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2360.00	12.50	29500.00
B02-1971-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2276.00	12.50	28450.00
B02-1971-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2276.00	12.50	28450.00
B02-1971-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2194.00	12.50	27425.00
B02-1971-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2194.00	12.50	27425.00
B02-1972-1P		12	Tee Weld Joint	FCAW	5		1F	1	4442.00	12.50	55525.00
B02-1972-15		12	Tee Weld Joint	FCAW	5		1F	1	4442.00	12.50	55525.00
B02-1972-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1412.00	12.50	17650.00
B02-1972-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1412.00	12.50	17650.00
B02-1973-1P		9	Tee Weld Joint	FCAW	5		1F	1	11896.00	12.50	148700.00
B02-1973-15		9	Tee Weld Joint	FCAW	5		1F	1	11896.00	12.50	148700.00
B02-1973-21	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-1973-21	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-1974-1P		10	Tee Weld Joint	FCAW	5		3F	1	6084.00	12.50	76050.00
			Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
B02-1974-15		10	Tee Weld Joint	FCAW	5		3F	1	6084.00	12.50	76050.00
			Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
B02-1974-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5118.53	12.50	63981.64
B02-1974-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5118.53	12.50	63981.64
B02-1974-22P		9	Tee Weld Joint	FCAW	5		2F	1	3045.00	12.50	38062.50
B02-1974-22S		9	Tee Weld Joint	FCAW	5		2F	1	3045.00	12.50	38062.50
B02-1976-1P		9	Tee Weld Joint	FCAW	5		1F	1	2672.00	12.50	33400.00
B02-1976-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1394.00	12.50	17425.00
B02-1977-15		9	Tee Weld Joint	FCAW	5		1F	1	3300.00	12.50	41250.00
B02-1977-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1956.00	12.50	24450.00
B02-1978-1P		9	Tee Weld Joint	FCAW	5		1F	1	4050.00	12.50	50625.00
B02-1978-15		9	Tee Weld Joint	FCAW	5		1F	1	4050.00	12.50	50625.00
B02-1978-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2792.25	12.50	34903.17
B02-1978-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2792.25	12.50	34903.17
B02-1979-1P		10	Tee Weld Joint	FCAW	5		1F	1	6894.00	12.50	86175.00
B02-1979-15		10	Tee Weld Joint	FCAW	5		1F	1	6894.00	12.50	86175.00
B02-1979-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3914.53	12.50	48931.64
B02-1979-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3914.53	12.50	48931.64
B02-1979-22P		9	Tee Weld Joint	FCAW	5		2F	1	3045.00	12.50	38062.50
B02-1979-22S		9	Tee Weld Joint	FCAW	5		2F	1	3045.00	12.50	38062.50
									0.00	0.00	0.00
B02-2081-1P		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00
B02-2081-15		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00
B02-2082-1P		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00

Part name	Ketebalan Plat (mm)		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)	
					Double Continues Weld	Slag Intermit Weld						
B02-20B2-1S		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00	
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00	
B02-20T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	10212.00	12.50	127650.00	
B02-20T1-1S		9	Tee Weld Joint	FCAW	5		1F	1	10212.00	12.50	127650.00	
B02-20T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1726.00	12.50	21575.00	
B02-20T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1726.00	12.50	21575.00	
B02-20T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1644.00	12.50	20550.00	
B02-20T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1644.00	12.50	20550.00	
B02-20T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1560.00	12.50	19500.00	
B02-20T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1560.00	12.50	19500.00	
B02-20T2-1P		12	Tee Weld Joint	FCAW	5		1F	1	4270.00	12.50	53375.00	
B02-20T2-1S		12	Tee Weld Joint	FCAW	5		1F	1	4270.00	12.50	53375.00	
B02-20T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1622.00	12.50	20275.00	
B02-20T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1622.00	12.50	20275.00	
B02-20T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93	
B02-20T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93	
B02-20T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	11896.00	12.50	148700.00	
B02-20T3-1S		9	Tee Weld Joint	FCAW	5		1F	1	11896.00	12.50	148700.00	
B02-20T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1912.00	12.50	23900.00	
B02-20T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1912.00	12.50	23900.00	
B02-20T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1830.00	12.50	22875.00	
B02-20T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1830.00	12.50	22875.00	
B02-20T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1748.00	12.50	21850.00	
B02-20T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1748.00	12.50	21850.00	
B02-20T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1574.00	12.50	19675.00	
B02-20T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1574.00	12.50	19675.00	
B02-20T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4230.00	12.50	52875.00	
B02-20T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4230.00	12.50	52875.00	
B02-20T4-1P		9	Tee Weld Joint	FCAW	5		1F	1	4172.00	12.50	52150.00	
B02-20T4-1S		9	Tee Weld Joint	FCAW	5		1F	1	4172.00	12.50	52150.00	
B02-20T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2932.78	12.50	36659.81	
B02-20T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2932.78	12.50	36659.81	
B02-20T5-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		5	1F	1	831.00	12.50	10387.50
B02-20T6-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		5	1F	1	1332.00	12.50	16650.00
B02-20V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	2504.00	12.50	31300.00	
B02-20V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	2504.00	12.50	31300.00	
									0.00	0.00	0.00	
B02-21T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	10752.00	12.50	134400.00	
B02-21T1-1S		9	Tee Weld Joint	FCAW	5		1F	1	10752.00	12.50	134400.00	
B02-21T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1994.00	12.50	24925.00	
B02-21T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1994.00	12.50	24925.00	
B02-21T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1912.00	12.50	23900.00	
B02-21T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1912.00	12.50	23900.00	
B02-21T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1832.00	12.50	22900.00	
B02-21T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1832.00	12.50	22900.00	
B02-21T2-1P		12	Tee Weld Joint	FCAW	5		1F	1	4800.00	12.50	60000.00	
B02-21T2-1S		12	Tee Weld Joint	FCAW	5		1F	1	4800.00	12.50	60000.00	
B02-21T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1622.00	12.50	20275.00	
B02-21T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1622.00	12.50	20275.00	
B02-21T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93	
B02-21T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93	
B02-21T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	13096.00	12.50	163700.00	
B02-21T3-1S		9	Tee Weld Joint	FCAW	5		1F	1	13096.00	12.50	163700.00	
B02-21T3-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		5	3F	1	1091.00	12.50	13637.50
B02-21T3-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		5	3F	1	1091.00	12.50	13637.50
B02-21T3-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		5	3F	1	1050.00	12.50	13125.00
B02-21T3-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		5	3F	1	1050.00	12.50	13125.00
B02-21T3-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		5	3F	1	1010.00	12.50	12625.00
B02-21T3-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		5	3F	1	1010.00	12.50	12625.00
B02-21T3-24	L	100*100*8.0	Tee Weld Joint	FCAW	5		5	3F	1	968.00	12.50	12100.00
B02-21T3-24	L	100*100*8.0	Tee Weld Joint	FCAW	5		5	3F	1	968.00	12.50	12100.00
B02-21T4-1P		10	Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65	
			Tee Weld Joint	FCAW	5		3F	1	6084.00	12.50	76050.00	
B02-21T4-1S		10	Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65	
			Tee Weld Joint	FCAW	5		3F	1	6084.00	12.50	76050.00	
B02-21T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5118.53	12.50	63981.64	
B02-21T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5118.53	12.50	63981.64	
B02-21T4-22P		9	Tee Weld Joint	FCAW	5		2F	1	2112.00	12.50	26400.00	
B02-21T4-22S		9	Tee Weld Joint	FCAW	5		2F	1	2112.00	12.50	26400.00	
B02-21T5-1P		9	Tee Weld Joint	FCAW	5		1F	1	3702.00	12.50	46275.00	
B02-21T5-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2572.00	12.50	32150.00	
B02-21T6-1S		9	Tee Weld Joint	FCAW	5		1F	1	2642.00	12.50	33025.00	
B02-21T6-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1570.00	12.50	19625.00	
B02-21T8-1P		10	Tee Weld Joint	FCAW	5		1F	1	6778.00	12.50	84725.00	
B02-21T8-1S		10	Tee Weld Joint	FCAW	5		1F	1	6778.00	12.50	84725.00	
B02-21T8-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3829.64	12.50	47870.52	
B02-21T8-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3829.64	12.50	47870.52	
B02-21T8-22P		9	Tee Weld Joint	FCAW	5		2F	1	2112.00	12.50	26400.00	
B02-21T8-22S		9	Tee Weld Joint	FCAW	5		2F	1	2112.00	12.50	26400.00	
									0.00	0.00	0.00	
B02-22B1-1P		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00	
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00	
B02-22B1-1S		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00	
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00	
B02-22B2-1P		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00	
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00	
B02-22B2-1S		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00	
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00	
B02-22T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	11220.00	12.50	140250.00	
B02-22T1-1S		9	Tee Weld Joint	FCAW	5		1F	1	11220.00	12.50	140250.00	
B02-22T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2224.00	12.50	27800.00	
B02-22T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2224.00	12.50	27800.00	
B02-22T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2144.00	12.50	26800.00	
B02-22T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2144.00	12.50	26800.00	
B02-22T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2066.00	12.50	25825.00	
B02-22T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2066.00	12.50	25825.00	
B02-22T2-1P		12	Tee Weld Joint	FCAW	5		1F	1	3313.27	12.50	41415.93	
B02-22T2-1S		12	Tee Weld Joint	FCAW	5		1F	1	3313.27	12.50	41415.93	
B02-22T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	13096.00	12.50	163700.00	
B02-22T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	13096.00	12.50	163700.00	
B02-22T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	2182.00	12.50	27275.00	
B02-22T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	2182.00	12.50	27275.00	
B02-22T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	13096.00	12.50	163700.00	

Part name	Ketebalan Plat (mm)		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
B02-2273-15		9	Tee Weld Joint	FCAW	5		1F	1	13096.00	12.50	163700.00
B02-2273-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2182.00	12.50	27275.00
B02-2273-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2182.00	12.50	27275.00
B02-2273-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2100.00	12.50	26250.00
B02-2273-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2100.00	12.50	26250.00
B02-2273-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2020.00	12.50	25250.00
B02-2273-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2020.00	12.50	25250.00
B02-2273-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1936.00	12.50	24200.00
B02-2273-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1936.00	12.50	24200.00
B02-2274-0	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4242.00	12.50	53025.00
B02-2274-0	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4242.00	12.50	53025.00
B02-2275-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	1652.00	12.50	20650.00
B02-2276-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	2686.00	12.50	33575.00
B02-22V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	5634.00	12.50	70425.00
B02-22V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	5634.00	12.50	70425.00
									0.00	0.00	0.00
B02-23T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	11622.00	12.50	145275.00
B02-23T1-15		9	Tee Weld Joint	FCAW	5		1F	1	11622.00	12.50	145275.00
B02-23T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2426.00	12.50	30325.00
B02-23T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2426.00	12.50	30325.00
B02-23T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2348.00	12.50	29350.00
B02-23T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2348.00	12.50	29350.00
B02-23T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2268.00	12.50	28350.00
B02-23T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2268.00	12.50	28350.00
B02-23T2-1P		12	Tee Weld Joint	FCAW	5		1F	1	3313.27	12.50	41415.93
B02-23T2-15		12	Tee Weld Joint	FCAW	5		1F	1	3313.27	12.50	41415.93
B02-23T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	13096.00	12.50	163700.00
B02-23T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	13096.00	12.50	163700.00
B02-23T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	2182.00	12.50	27275.00
B02-23T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	2182.00	12.50	27275.00
B02-23T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	12040.00	12.50	150500.00
B02-23T3-15		9	Tee Weld Joint	FCAW	5		1F	1	12040.00	12.50	150500.00
B02-23T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2032.00	12.50	25400.00
B02-23T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2032.00	12.50	25400.00
B02-23T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1954.00	12.50	24425.00
B02-23T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1954.00	12.50	24425.00
B02-23T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1874.00	12.50	23425.00
B02-23T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1874.00	12.50	23425.00
B02-23T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1730.00	12.50	21625.00
B02-23T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1730.00	12.50	21625.00
B02-23T4-1P		10	Butt Weld Joint	FCAW	5		2G	7	3500.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		3F	1	6598.00	12.50	82475.00
B02-23T4-15		10	Butt Weld Joint	FCAW	5		2G	7	3500.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		3F	1	6598.00	12.50	82475.00
B02-23T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5629.70	12.50	70371.27
B02-23T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5629.70	12.50	70371.27
B02-23T4-22P		9	Tee Weld Joint	FCAW	5		2F	1	2038.00	12.50	25475.00
B02-23T4-22S		9	Tee Weld Joint	FCAW	5		2F	1	2038.00	12.50	25475.00
B02-23T5-1P		9	Tee Weld Joint	FCAW	5		1F	1	2642.00	12.50	33025.00
B02-23T5-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1578.00	12.50	19725.00
B02-23T6-15		9	Tee Weld Joint	FCAW	5		1F	1	3662.00	12.50	45775.00
B02-23T6-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2580.00	12.50	32250.00
B02-23T7-1P		10	Tee Weld Joint	FCAW	5		1F	1	6746.00	12.50	84325.00
B02-23T7-15		10	Tee Weld Joint	FCAW	5		3F	1	6746.00	12.50	84325.00
B02-23T7-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3861.17	12.50	48264.64
B02-23T7-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3861.17	12.50	48264.64
B02-23T7-22P		9	Tee Weld Joint	FCAW	5		2F	1	2038.00	12.50	25475.00
B02-23T7-22S		9	Tee Weld Joint	FCAW	5		2F	1	2038.00	12.50	25475.00
B02-23T8-1C		9	Tee Weld Joint	FCAW	5		1F	1	4464.00	12.50	55800.00
B02-23T8-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	3400.00	12.50	42500.00
									0.00	0.00	0.00
B02-24B1-1P		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00
B02-24B1-15		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00
B02-24B2-1P		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-24B2-15		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-24B3-1P		12	Tee Weld Joint	FCAW	5		2F	1	1190.00	12.50	14875.00
B02-24B3-15		12	Tee Weld Joint	FCAW	5		2F	1	1190.00	12.50	14875.00
B02-24B4-1P		12	Tee Weld Joint	FCAW	5		2F	1	1190.00	12.50	14875.00
B02-24B4-15		12	Tee Weld Joint	FCAW	5		2F	1	1190.00	12.50	14875.00
B02-24PAD2-1C		10	Tee Weld Joint	FCAW	5		3F	1	436.00	12.50	5450.00
B02-24PIL1-1C		10	Tee Weld Joint	FCAW	5		3F	1	1300.00	12.50	16250.00
B02-24PIL1-21	TUBE	165.2*7.1	Tee Weld Joint	FCAW	5		6F	1	1300.00	12.50	16250.00
B02-24PIL1-22P		9	Tee Weld Joint	FCAW	5		2F	1	1300.00	12.50	16250.00
B02-24PIL1-22P		9	Tee Weld Joint	FCAW	5		3F	1	1300.00	12.50	16250.00
B02-24PIL1-22P		9	Tee Weld Joint	FCAW	5		2F	1	1300.00	12.50	16250.00
B02-24PIL1-22S		9	Tee Weld Joint	FCAW	5		3F	1	1300.00	12.50	16250.00
B02-24PIL1-22S		9	Tee Weld Joint	FCAW	5		2F	1	1300.00	12.50	16250.00
B02-24PIL1-22S		9	Tee Weld Joint	FCAW	5		3F	1	1300.00	12.50	16250.00
B02-24T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	11622.00	12.50	145275.00
B02-24T1-15		9	Tee Weld Joint	FCAW	5		1F	1	11622.00	12.50	145275.00
B02-24T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2426.00	12.50	30325.00
B02-24T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2426.00	12.50	30325.00
B02-24T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2348.00	12.50	29350.00
B02-24T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2348.00	12.50	29350.00
B02-24T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2268.00	12.50	28350.00
B02-24T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2268.00	12.50	28350.00
B02-24T2-1P		12	Tee Weld Joint	FCAW	5		1F	1	3313.27	12.50	41415.93
B02-24T2-15		12	Tee Weld Joint	FCAW	5		1F	1	3313.27	12.50	41415.93
B02-24T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	13096.00	12.50	163700.00
B02-24T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	13096.00	12.50	163700.00
B02-24T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	2182.00	12.50	27275.00
B02-24T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	2182.00	12.50	27275.00
B02-24T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	12040.00	12.50	150500.00
B02-24T3-15		9	Tee Weld Joint	FCAW	5		1F	1	12040.00	12.50	150500.00
B02-24T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2032.00	12.50	25400.00
B02-24T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2032.00	12.50	25400.00
B02-24T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1954.00	12.50	24425.00
B02-24T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1954.00	12.50	24425.00
B02-24T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1874.00	12.50	23425.00

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
	(mm)				Double Continues Weld	Slag Intermit Weld					
B02-24T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1874.00	12.50	23425.00
B02-24T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1730.00	12.50	21625.00
B02-24T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1730.00	12.50	21625.00
B02-24T4-1C		9	Tee Weld Joint	FCAW	5		1F	1	15720.00	12.50	196500.00
B02-24T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1856.00	12.50	23200.00
B02-24T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	1856.00	12.50	23200.00
B02-24T5-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4386.00	12.50	54825.00
B02-24T5-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4386.00	12.50	54825.00
B02-24T5-1C		7	Tee Weld Joint	FCAW	5		1F	1	30892.00	12.50	386150.00
B02-24T5-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		2F	1	2092.00	12.50	26150.00
B02-24T5-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		2F	1	2092.00	12.50	26150.00
B02-24T5-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		2F	1	2092.00	12.50	26150.00
B02-24T5-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		2F	1	2092.00	12.50	26150.00
B02-24T5-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		2F	1	2092.00	12.50	26150.00
B02-24T5-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		2F	1	2092.00	12.50	26150.00
B02-24T5-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		2F	1	2092.00	12.50	26150.00
B02-24T5-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		2F	1	2092.00	12.50	26150.00
B02-24T5-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		2F	1	2092.00	12.50	26150.00
B02-24T5-22	L	75*75*6.0	Tee Weld Joint	FCAW	5		2F	1	2200.00	12.50	27500.00
B02-24T5-22	L	75*75*6.0	Tee Weld Joint	FCAW	5		2F	1	2200.00	12.50	27500.00
B02-24V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		2F	1	5648.00	12.50	70600.00
B02-24V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		2F	1	5648.00	12.50	70600.00
									0.00	0.00	0.00
B02-25B1-1P		12	Tee Weld Joint	FCAW	5		3F	1	2144.00	12.50	26800.00
B02-25B1-15		12	Tee Weld Joint	FCAW	5		2F	1	2144.00	12.50	26800.00
B02-25B1-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	636.00	12.50	7950.00
B02-25B1-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	636.00	12.50	7950.00
B02-25B2-1P		12	Tee Weld Joint	FCAW	5		3F	1	2144.00	12.50	26800.00
B02-25B2-15		12	Tee Weld Joint	FCAW	5		2F	1	2144.00	12.50	26800.00
B02-25B2-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	636.00	12.50	7950.00
B02-25B2-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	636.00	12.50	7950.00
B02-25T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	11622.00	12.50	145275.00
B02-25T1-15		9	Tee Weld Joint	FCAW	5		1F	1	11622.00	12.50	145275.00
B02-25T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2426.00	12.50	30325.00
B02-25T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2426.00	12.50	30325.00
B02-25T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2348.00	12.50	29350.00
B02-25T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2348.00	12.50	29350.00
B02-25T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2268.00	12.50	28350.00
B02-25T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2268.00	12.50	28350.00
B02-25T2-1P		12	Tee Weld Joint	FCAW	5		1F	1	3313.27	12.50	41415.93
B02-25T2-15		12	Tee Weld Joint	FCAW	5		1F	1	3313.27	12.50	41415.93
B02-25T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	13096.00	12.50	163700.00
B02-25T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	13096.00	12.50	163700.00
B02-25T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	2182.00	12.50	27275.00
B02-25T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	2182.00	12.50	27275.00
B02-25T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	12040.00	12.50	150500.00
B02-25T3-15		9	Tee Weld Joint	FCAW	5		1F	1	12040.00	12.50	150500.00
B02-25T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2032.00	12.50	25400.00
B02-25T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2032.00	12.50	25400.00
B02-25T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1954.00	12.50	24425.00
B02-25T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1954.00	12.50	24425.00
B02-25T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1874.00	12.50	23425.00
B02-25T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1874.00	12.50	23425.00
B02-25T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1730.00	12.50	21625.00
B02-25T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1730.00	12.50	21625.00
B02-25T4-1P		10	Butt Weld Joint	FCAW	5		2F	1	500.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		2G	6	39588.00	12.50	82475.00
B02-25T4-15		10	Butt Weld Joint	FCAW	5		3F	1	500.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		2G	6	39588.00	12.50	82475.00
B02-25T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5629.70	12.50	70371.27
B02-25T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5629.70	12.50	70371.27
B02-25T4-22P		9	Tee Weld Joint	FCAW	5		2F	1	2038.00	12.50	25475.00
B02-25T4-22S		9	Tee Weld Joint	FCAW	5		2F	1	2038.00	12.50	25475.00
B02-25T5-1P		9	Tee Weld Joint	FCAW	5		1F	1	5300.00	12.50	66250.00
B02-25T5-15		9	Tee Weld Joint	FCAW	5		1F	1	5300.00	12.50	66250.00
B02-25T5-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	3900.00	12.50	48750.00
B02-25T5-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	3900.00	12.50	48750.00
B02-25T6-1P		9	Tee Weld Joint	FCAW	5		2F	1	10200.00	12.50	127500.00
B02-25T6-15		9	Tee Weld Joint	FCAW	5		2F	1	10200.00	12.50	127500.00
B02-25T6-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7600.00	12.50	95000.00
B02-25T6-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7600.00	12.50	95000.00
B02-25T7-1P		10	Tee Weld Joint	FCAW	5		1F	1	6746.00	12.50	84325.00
B02-25T7-15		10	Tee Weld Joint	FCAW	5		1F	1	6746.00	12.50	84325.00
B02-25T7-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3861.17	12.50	48264.64
B02-25T7-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3861.17	12.50	48264.64
B02-25T7-22P		9	Tee Weld Joint	FCAW	5		2F	1	2038.00	12.50	25475.00
B02-25T7-22S		9	Tee Weld Joint	FCAW	5		2F	1	2038.00	12.50	25475.00
									0.00	0.00	0.00
B02-26T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	11622.00	12.50	145275.00
B02-26T1-15		9	Tee Weld Joint	FCAW	5		1F	1	11622.00	12.50	145275.00
B02-26T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2426.00	12.50	30325.00
B02-26T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2426.00	12.50	30325.00
B02-26T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2348.00	12.50	29350.00
B02-26T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2348.00	12.50	29350.00
B02-26T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2268.00	12.50	28350.00
B02-26T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2268.00	12.50	28350.00
B02-26T2-1P		12	Tee Weld Joint	FCAW	5		1F	1	2182.00	12.50	27275.00
B02-26T2-15		12	Tee Weld Joint	FCAW	5		1F	1	2182.00	12.50	27275.00
B02-26T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	12040.00	12.50	150500.00
B02-26T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	12040.00	12.50	150500.00
B02-26T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	2032.00	12.50	25400.00
B02-26T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	2032.00	12.50	25400.00
B02-26T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	12040.00	12.50	150500.00
B02-26T3-15		9	Tee Weld Joint	FCAW	5		1F	1	12040.00	12.50	150500.00
B02-26T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2032.00	12.50	25400.00
B02-26T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2032.00	12.50	25400.00
B02-26T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1954.00	12.50	24425.00
B02-26T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1954.00	12.50	24425.00
B02-26T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1874.00	12.50	23425.00
B02-26T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1874.00	12.50	23425.00
B02-26T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1730.00	12.50	21625.00
B02-26T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1730.00	12.50	21625.00

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
	(mm)	(mm)			Double Continues Weld	Slag Intermit Weld					
B02-26T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	5952.00	12.50	74400.00
B02-26T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	5952.00	12.50	74400.00
B02-26T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		3F	1	3530.23	12.50	44127.89
B02-26T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		3F	1	3530.23	12.50	44127.89
B02-26V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	5620.00	12.50	70250.00
B02-26V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	5620.00	0.00	0.00
									0.00	0.00	0.00
B02-27B1-1P		9	Tee Weld Joint	FCAW	5		3F	1	2280.00	12.50	28500.00
B02-27B1-15		9	Tee Weld Joint	FCAW	5		3F	1	2280.00	12.50	28500.00
B02-27B2-1P		12	Tee Weld Joint	FCAW	5		2F	1	2780.00	12.50	34750.00
B02-27B2-15		12	Tee Weld Joint	FCAW	5		3F	1	2780.00	12.50	34750.00
B02-27B2-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	2780.00	12.50	34750.00
B02-27B2-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	2780.00	12.50	34750.00
B02-27B3-1P		12	Tee Weld Joint	FCAW	5		2F	1	2780.00	12.50	34750.00
B02-27B3-15		12	Tee Weld Joint	FCAW	5		3F	1	2780.00	12.50	34750.00
B02-27B3-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	2780.00	12.50	34750.00
B02-27B3-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	2780.00	12.50	34750.00
B02-27P1L1-1P		10	Tee Weld Joint	FCAW	5		3F	1	1934.00	12.50	24175.00
B02-27P1L1-15		10	Tee Weld Joint	FCAW	5		3F	1	1934.00	12.50	24175.00
B02-27P1L1-21	TUBE	165.2*7.1	Tee Weld Joint	FCAW	5		6F	1	940.00	12.50	11750.00
B02-27P1L1-21	TUBE	165.2*7.1	Tee Weld Joint	FCAW	5		6F	1	940.00	12.50	11750.00
B02-27P1L1-22P		9	Tee Weld Joint	FCAW	5		2F	1	940.00	12.50	11750.00
B02-27P1L1-22P		9	Tee Weld Joint	FCAW	5		3F	1	940.00	12.50	11750.00
B02-27P1L1-22P		9	Tee Weld Joint	FCAW	5		2F	1	940.00	12.50	11750.00
B02-27P1L1-22P		9	Tee Weld Joint	FCAW	5		3F	1	940.00	12.50	11750.00
B02-27P1L1-22S		9	Tee Weld Joint	FCAW	5		2F	1	940.00	12.50	11750.00
B02-27P1L1-22S		9	Tee Weld Joint	FCAW	5		3F	1	940.00	12.50	11750.00
B02-27P1L1-22S		9	Tee Weld Joint	FCAW	5		2F	1	940.00	12.50	11750.00
B02-27P1L1-22S		9	Tee Weld Joint	FCAW	5		3F	1	940.00	12.50	11750.00
B02-27P1L1-23P		9	Tee Weld Joint	FCAW	5		2F	1	940.00	12.50	11750.00
B02-27P1L1-23S		9	Tee Weld Joint	FCAW	5		3F	1	940.00	12.50	11750.00
B02-27P1L1-24P		9	Tee Weld Joint	FCAW	5		2F	1	940.00	12.50	11750.00
B02-27P1L1-24S		9	Tee Weld Joint	FCAW	5		3F	1	940.00	12.50	11750.00
B02-27T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	12588.00	12.50	157350.00
B02-27T1-15		9	Tee Weld Joint	FCAW	5		1F	1	12588.00	12.50	157350.00
B02-27T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2862.00	12.50	35775.00
B02-27T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2862.00	12.50	35775.00
B02-27T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2778.00	12.50	34725.00
B02-27T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2778.00	12.50	34725.00
B02-27T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2696.00	12.50	33700.00
B02-27T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2696.00	12.50	33700.00
B02-27T2-1P		12	Tee Weld Joint	FCAW	5		1F	1	5542.00	12.50	69275.00
B02-27T2-15		12	Tee Weld Joint	FCAW	5		1F	1	5542.00	12.50	69275.00
B02-27T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.00	12.50	20650.00
B02-27T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.00	12.50	20650.00
B02-27T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-27T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-27T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	13014.00	12.50	162675.00
B02-27T3-15		9	Tee Weld Joint	FCAW	5		1F	1	13014.00	12.50	162675.00
B02-27T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2456.00	12.50	30700.00
B02-27T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2456.00	12.50	30700.00
B02-27T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2376.00	12.50	29700.00
B02-27T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2376.00	12.50	29700.00
B02-27T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2296.00	12.50	28700.00
B02-27T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2296.00	12.50	28700.00
B02-27T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2078.00	12.50	25975.00
B02-27T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2078.00	12.50	25975.00
B02-27T3-25	FB	125*10.0	Tee Weld Joint	FCAW	5		1F	1	1080.00	12.50	13500.00
B02-27T3-25	FB	125*10.0	Tee Weld Joint	FCAW	5		1F	1	1080.00	12.50	13500.00
B02-27T4-1P		10	Tee Weld Joint	FCAW	5		3F	1	6544.00	12.50	81800.00
			Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
B02-27T4-1S		10	Tee Weld Joint	FCAW	5		3F	1	6544.00	12.50	81800.00
			Tee Weld Joint	FCAW	5		2G	6	6000.00	12.50	12500.00
B02-27T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5562.18	12.50	69527.29
B02-27T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5562.18	12.50	69527.29
B02-27T4-22P		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-27T4-22S		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-27T5-1P		9	Tee Weld Joint	FCAW	5		1F	1	8208.00	12.50	102600.00
B02-27T5-15		9	Tee Weld Joint	FCAW	5		1F	1	8208.00	12.50	102600.00
B02-27T5-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7082.23	12.50	88527.88
B02-27T5-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7082.23	12.50	88527.88
B02-27T6-1P		10	Tee Weld Joint	FCAW	5		1F	1	6966.00	12.50	87075.00
B02-27T6-15		10	Tee Weld Joint	FCAW	5		1F	1	6966.00	12.50	87075.00
B02-27T6-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	2983.24	12.50	37290.50
B02-27T6-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	2983.24	12.50	37290.50
B02-27T6-22P		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-27T6-22S		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
									0.00	0.00	0.00
B02-28B1-1P		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00
B02-28B1-15		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00
B02-28B2-1P		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-28B2-1S		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-28B3-1P		12	Tee Weld Joint	FCAW	5		2F	1	1838.00	12.50	22975.00
B02-28B3-15		12	Tee Weld Joint	FCAW	5		3F	1	1838.00	12.50	22975.00
B02-28B3-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	1838.00	12.50	22975.00
B02-28B3-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	1838.00	12.50	22975.00
B02-28B4-1P		12	Tee Weld Joint	FCAW	5		2F	1	1838.00	12.50	22975.00
B02-28B4-15		12	Tee Weld Joint	FCAW	5		3F	1	1838.00	12.50	22975.00
B02-28B4-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	1838.00	12.50	22975.00
B02-28B4-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	1838.00	12.50	22975.00
B02-28T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	12620.00	12.50	157750.00
B02-28T1-15		9	Tee Weld Joint	FCAW	5		1F	1	12620.00	12.50	157750.00
B02-28T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-28T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-28T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2796.00	12.50	34950.00
B02-28T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2796.00	12.50	34950.00
B02-28T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2718.00	12.50	33975.00
B02-28T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2718.00	12.50	33975.00
B02-28T2-1P		12	Tee Weld Joint	FCAW	5		1F	1	5592.00	12.50	69900.00

Part name	Ketebalan Plat (mm)		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
B02-28T2-15		12	Tee Weld Joint	FCAW	5		1F	1	5592.00	12.50	69900.00
B02-28T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.00	12.50	20650.00
B02-28T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.00	12.50	20650.00
B02-28T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-28T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-28T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	12954.00	12.50	161925.00
B02-28T3-15		9	Tee Weld Joint	FCAW	5		1F	1	12954.00	12.50	161925.00
B02-28T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2480.00	12.50	31000.00
B02-28T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2480.00	12.50	31000.00
B02-28T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2402.00	12.50	30025.00
B02-28T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2402.00	12.50	30025.00
B02-28T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2322.00	12.50	29025.00
B02-28T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2322.00	12.50	29025.00
B02-28T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2074.00	12.50	25925.00
B02-28T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2074.00	12.50	25925.00
B02-28T1-1			Tee Weld Joint	FCAW	5		1F	1	4284.00	12.50	53550.00
B02-28T1-1			Tee Weld Joint	FCAW	5		1F	1	4284.00	12.50	53550.00
B02-28V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	5620.00	12.50	70250.00
B02-28V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	5620.00	12.50	70250.00
									0.00	0.00	0.00
B02-29B1-1P		9	Tee Weld Joint	FCAW	5		3F	1	2290.00	12.50	28625.00
B02-29B1-15		9	Tee Weld Joint	FCAW	5		3F	1	2290.00	12.50	28625.00
B02-29B2-1P		12	Tee Weld Joint	FCAW	5		2F	1	2010.00	12.50	25125.00
B02-29B2-15		12	Tee Weld Joint	FCAW	5		3F	1	2010.00	12.50	25125.00
B02-29B2-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	518.00	12.50	6475.00
B02-29B2-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	518.00	12.50	6475.00
B02-29B3-1P		12	Tee Weld Joint	FCAW	5		2F	1	2010.00	12.50	25125.00
B02-29B3-15		12	Tee Weld Joint	FCAW	5		3F	1	2010.00	12.50	25125.00
B02-29B3-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	518.00	12.50	6475.00
B02-29B3-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	518.00	12.50	6475.00
B02-29T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	12620.00	12.50	157750.00
B02-29T1-15		9	Tee Weld Joint	FCAW	5		1F	1	12620.00	12.50	157750.00
B02-29T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-29T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-29T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2796.00	12.50	34950.00
B02-29T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2796.00	12.50	34950.00
B02-29T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2718.00	12.50	33975.00
B02-29T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2718.00	12.50	33975.00
B02-29T2-1P		12	Tee Weld Joint	FCAW	5		1F	1	5592.00	12.50	69900.00
B02-29T2-15		12	Tee Weld Joint	FCAW	5		1F	1	5592.00	12.50	69900.00
B02-29T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.00	12.50	20650.00
B02-29T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.00	12.50	20650.00
B02-29T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-29T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-29T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	12954.00	12.50	161925.00
B02-29T3-15		9	Tee Weld Joint	FCAW	5		1F	1	12954.00	12.50	161925.00
B02-29T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2480.00	12.50	31000.00
B02-29T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2480.00	12.50	31000.00
B02-29T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2402.00	12.50	30025.00
B02-29T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2402.00	12.50	30025.00
B02-29T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2322.00	12.50	29025.00
B02-29T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2322.00	12.50	29025.00
B02-29T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2074.00	12.50	25925.00
B02-29T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2074.00	12.50	25925.00
B02-29T4-1P		9	Tee Weld Joint	FCAW	5		1F	1	8208.00	12.50	102600.00
B02-29T4-15		9	Tee Weld Joint	FCAW	5		1F	1	8208.00	12.50	102600.00
B02-29T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7082.24	12.50	88527.99
B02-29T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7082.24	12.50	88527.99
B02-29T5-1P		10	Tee Weld Joint	FCAW	5		1F	1	6822.00	12.50	85275.00
B02-29T5-15		10	Tee Weld Joint	FCAW	5		1F	1	6822.00	12.50	85275.00
B02-29T5-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3852.18	12.50	48152.27
B02-29T5-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3852.18	12.50	48152.27
B02-29T5-22P		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-29T5-22S		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-29T6-1P		10	Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		3F	1	6598.00	12.50	82475.00
B02-29T6-15		10	Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		3F	1	6598.00	12.50	82475.00
B02-29T6-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5581.27	12.50	69765.88
B02-29T6-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5581.27	12.50	69765.88
B02-29T6-22P		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-29T6-22S		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
					5				0.00	12.50	0.00
B02-30B1-1P		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00
B02-30B1-15		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00
B02-30B2-1P		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-30B2-15		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-30B3-1P		12	Tee Weld Joint	FCAW	5		2F	1	1838.00	12.50	22975.00
B02-30B3-15		12	Tee Weld Joint	FCAW	5		3F	1	1838.00	12.50	22975.00
B02-30B3-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	1838.00	12.50	22975.00
B02-30B3-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	1838.00	12.50	22975.00
B02-30B4-1P		12	Tee Weld Joint	FCAW	5		2F	1	1838.00	12.50	22975.00
B02-30B4-15		12	Tee Weld Joint	FCAW	5		3F	1	1838.00	12.50	22975.00
B02-30B4-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	1838.00	12.50	22975.00
B02-30B4-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	1838.00	12.50	22975.00
B02-30T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	12620.00	12.50	157750.00
B02-30T1-15		9	Tee Weld Joint	FCAW	5		1F	1	12620.00	12.50	157750.00
B02-30T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-30T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-30T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2796.00	12.50	34950.00
B02-30T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2796.00	12.50	34950.00
B02-30T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2718.00	12.50	33975.00
B02-30T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2718.00	12.50	33975.00
B02-30T2-1P		12	Tee Weld Joint	FCAW	5		1F	1	5592.00	12.50	69900.00
B02-30T2-15		12	Tee Weld Joint	FCAW	5		1F	1	5592.00	12.50	69900.00
B02-30T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.00	12.50	20650.00
B02-30T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.00	12.50	20650.00
B02-30T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-30T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermit Weld					
B02-30T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	12954.00	12.50	161925.00
B02-30T3-1S		9	Tee Weld Joint	FCAW	5		1F	1	12954.00	12.50	161925.00
B02-30T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2480.00	12.50	31000.00
B02-30T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2480.00	12.50	31000.00
B02-30T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2402.00	12.50	30025.00
B02-30T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2402.00	12.50	30025.00
B02-30T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2322.00	12.50	29025.00
B02-30T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2322.00	12.50	29025.00
B02-30T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2074.00	12.50	25925.00
B02-30T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2074.00	12.50	25925.00
B02-30T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4284.00	12.50	53550.00
B02-30T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4284.00	12.50	53550.00
B02-30V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	5620.00	12.50	70250.00
B02-30V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	5620.00	12.50	70250.00
									0.00	0.00	0.00
B02-31B1-1P		9	Tee Weld Joint	FCAW	5		3F	1	2290.00	12.50	28625.00
B02-31B1-1S		9	Tee Weld Joint	FCAW	5		3F	1	2290.00	12.50	28625.00
B02-31B2-1P		12	Tee Weld Joint	FCAW	5		2F	1	2010.00	12.50	25125.00
B02-31B2-1S		12	Tee Weld Joint	FCAW	5		3F	1	2010.00	12.50	25125.00
B02-31B2-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	518.00	12.50	6475.00
B02-31B2-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	518.00	12.50	6475.00
B02-31B3-1P		12	Tee Weld Joint	FCAW	5		2F	1	2010.00	12.50	25125.00
B02-31B3-1S		12	Tee Weld Joint	FCAW	5		3F	1	2010.00	12.50	25125.00
B02-31B3-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	518.00	12.50	6475.00
B02-31B3-21	FB	100*14.0	Tee Weld Joint	FCAW	5		3F	1	518.00	12.50	6475.00
B02-31T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	12620.00	12.50	157750.00
B02-31T1-1S		9	Tee Weld Joint	FCAW	5		1F	1	12620.00	12.50	157750.00
B02-31T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-31T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-31T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2796.00	12.50	34950.00
B02-31T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2796.00	12.50	34950.00
B02-31T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2718.00	12.50	33975.00
B02-31T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2718.00	12.50	33975.00
B02-31T2-1P		12	Tee Weld Joint	FCAW	5		1F	1	5592.00	12.50	69900.00
B02-31T2-1S		12	Tee Weld Joint	FCAW	5		1F	1	5592.00	12.50	69900.00
B02-31T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.00	12.50	20650.00
B02-31T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.00	12.50	20650.00
B02-31T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-31T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-31T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	12954.00	12.50	161925.00
B02-31T3-1S		9	Tee Weld Joint	FCAW	5		1F	1	12954.00	12.50	161925.00
B02-31T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2480.00	12.50	31000.00
B02-31T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2480.00	12.50	31000.00
B02-31T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2402.00	12.50	30025.00
B02-31T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2402.00	12.50	30025.00
B02-31T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2322.00	12.50	29025.00
B02-31T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2322.00	12.50	29025.00
B02-31T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2074.00	12.50	25925.00
B02-31T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2074.00	12.50	25925.00
B02-31T4-1P		10	Butt Weld Joint	FCAW	5		2G	7	3500.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		3F	1	6598.00	12.50	82475.00
B02-31T4-1S		10	Butt Weld Joint	FCAW	5		2G	7	3500.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		3F	1	6598.00	12.50	82475.00
B02-31T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5581.27	12.50	69765.88
B02-31T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5581.27	12.50	69765.88
B02-31T4-22P		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-31T4-22S		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-31T5-1P		10	Tee Weld Joint	FCAW	5		1F	1	6822.00	12.50	85275.00
B02-31T5-1S		10	Tee Weld Joint	FCAW	5		1F	1	6822.00	12.50	85275.00
B02-31T5-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3852.18	12.50	48152.27
B02-31T5-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3852.18	12.50	48152.27
B02-31T5-22P		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-31T5-22S		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-31T6-1P		9	Tee Weld Joint	FCAW	5		1F	1	8208.00	12.50	102600.00
B02-31T6-1S		9	Tee Weld Joint	FCAW	5		1F	1	8208.00	12.50	102600.00
B02-31T6-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7082.24	12.50	88527.99
B02-31T6-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7082.24	12.50	88527.99
									0.00	0.00	0.00
B02-32B1-1P		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00
B02-32B1-1S		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00
B02-32B2-1P		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-32B2-1S		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-32T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	12620.00	12.50	157750.00
B02-32T1-1S		9	Tee Weld Joint	FCAW	5		1F	1	12620.00	12.50	157750.00
B02-32T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-32T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-32T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2796.00	12.50	34950.00
B02-32T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2796.00	12.50	34950.00
B02-32T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2718.00	12.50	33975.00
B02-32T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2718.00	12.50	33975.00
B02-32T2-1P		12	Tee Weld Joint	FCAW	5		1F	1	6292.00	12.50	78650.00
B02-32T2-1S		12	Tee Weld Joint	FCAW	5		1F	1	6292.00	12.50	78650.00
B02-32T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.00	12.50	20650.00
B02-32T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.00	12.50	20650.00
B02-32T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-32T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-32T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	12954.00	12.50	161925.00
B02-32T3-1S		9	Tee Weld Joint	FCAW	5		1F	1	12954.00	12.50	161925.00
B02-32T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2480.00	12.50	31000.00
B02-32T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2480.00	12.50	31000.00
B02-32T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2402.00	12.50	30025.00
B02-32T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2402.00	12.50	30025.00
B02-32T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2322.00	12.50	29025.00
B02-32T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2322.00	12.50	29025.00
B02-32T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2074.00	12.50	25925.00
B02-32T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2074.00	12.50	25925.00
B02-32T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4284.00	12.50	53550.00
B02-32T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4284.00	12.50	53550.00
B02-32V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	5620.00	12.50	70250.00

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
	L	(mm)			Double Continues Weld	Slag Intermit Weld					
B02-32V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	5620.00	12.50	70250.00
									0.00	0.00	0.00
B02-33B1-1P		9	Tee Weld Joint	FCAW	5		3F	1	2290.00	12.50	28625.00
B02-33B1-1S		9	Tee Weld Joint	FCAW	5		3F	1	2290.00	12.50	28625.00
B02-33T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	12620.00	12.50	157750.00
B02-33T1-1S		9	Tee Weld Joint	FCAW	5		1F	1	12620.00	12.50	157750.00
B02-33T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-33T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-33T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2796.00	12.50	34950.00
B02-33T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2796.00	12.50	34950.00
B02-33T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2718.00	12.50	33975.00
B02-33T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2718.00	12.50	33975.00
B02-33T2-1P		12	Tee Weld Joint	FCAW	5		1F	1	6292.00	12.50	78650.00
B02-33T2-1S		12	Tee Weld Joint	FCAW	5		1F	1	6292.00	12.50	78650.00
B02-33T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.00	12.50	20650.00
B02-33T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	1652.00	12.50	20650.00
B02-33T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3313.27	12.50	41415.93
B02-33T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3313.27	12.50	41415.93
B02-33T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	12954.00	12.50	161925.00
B02-33T3-1S		9	Tee Weld Joint	FCAW	5		1F	1	12954.00	12.50	161925.00
B02-33T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2480.00	12.50	31000.00
B02-33T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2480.00	12.50	31000.00
B02-33T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		6F	1	2402.00	12.50	30025.00
B02-33T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		6F	1	2402.00	12.50	30025.00
B02-33T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2322.00	12.50	29025.00
B02-33T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2322.00	12.50	29025.00
B02-33T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2074.00	12.50	25925.00
B02-33T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2074.00	12.50	25925.00
B02-33T7-1P		10	Tee Weld Joint	FCAW	5		1F	1	6822.00	12.50	85275.00
B02-33T7-1S		10	Tee Weld Joint	FCAW	5		1F	1	6822.00	12.50	85275.00
B02-33T7-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3852.18	12.50	48152.27
B02-33T7-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3852.18	12.50	48152.27
B02-33T7-22P		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-33T7-22S		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-33T8-1P		9	Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		3F	1	6598.00	12.50	82475.00
B02-33T8-1S		10	Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		3F	1	6598.00	12.50	82475.00
B02-33T8-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5581.27	12.50	69765.88
B02-33T8-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5581.27	12.50	69765.88
B02-33T9-1P		9	Tee Weld Joint	FCAW	5		1F	1	8208.00	12.50	102600.00
B02-33T9-1S		9	Tee Weld Joint	FCAW	5		1F	1	8208.00	12.50	102600.00
B02-33T9-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7082.24	12.50	88527.99
B02-33T9-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7082.24	12.50	88527.99
									0.00	0.00	0.00
B02-34B1-1P		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00
B02-34B1-1S		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00
B02-34B2-1P		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-34B2-1S		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-34T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	14502.00	12.50	181275.00
B02-34T1-1S		9	Tee Weld Joint	FCAW	5		1F	1	14502.00	12.50	181275.00
B02-34T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-34T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-34T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2786.00	12.50	34825.00
B02-34T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2786.00	12.50	34825.00
B02-34T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2698.00	12.50	33725.00
B02-34T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2698.00	12.50	33725.00
B02-34T2-1P		9	Tee Weld Joint	FCAW	5		1F	1	9598.00	12.50	119975.00
B02-34T2-21	FB	125*10.0	Tee Weld Joint	FCAW	5		1F	1	2580.00	12.50	32250.00
B02-34T2-21S		10	Tee Weld Joint	FCAW	5		2F	1	1804.00	12.50	22550.00
B02-34T2-22	FB	125*10.0	Tee Weld Joint	FCAW	5		2F	1	2518.00	12.50	31475.00
B02-34T2-22S		10	Tee Weld Joint	FCAW	5		6F	1	3568.00	12.50	44600.00
B02-34T3-1P		9	Tee Weld Joint	FCAW	5		6F	1	11678.00	12.50	145975.00
B02-34T3-1S		9	Tee Weld Joint	FCAW	5		1F	1	11678.00	12.50	145975.00
B02-34T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		1F	1	2428.00	12.50	30350.00
B02-34T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2428.00	12.50	30350.00
B02-34T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2338.00	12.50	29225.00
B02-34T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2338.00	12.50	29225.00
B02-34T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2246.00	12.50	28075.00
B02-34T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2246.00	12.50	28075.00
B02-34T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1488.00	12.50	18600.00
B02-34T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1488.00	12.50	18600.00
B02-34T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	4280.00	12.50	53500.00
B02-34T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4280.00	12.50	53500.00
B02-34T5-1S		14	Tee Weld Joint	FCAW	5		1F	1	9598.00	12.50	119975.00
B02-34V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	5769.94	12.50	72124.26
B02-34V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	5769.94	12.50	72124.26
									0.00	0.00	0.00
B02-35B1-1P		9	Tee Weld Joint	FCAW	5		3F	1	2604.00	12.50	32550.00
B02-35T11-1S		9	Tee Weld Joint	FCAW	5		1F	1	8208.00	12.50	102600.00
B02-35T11-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7082.22	12.50	88527.79
B02-35T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	14502.00	12.50	181275.00
B02-35T1-1S		9	Tee Weld Joint	FCAW	5		1F	1	14502.00	12.50	181275.00
B02-35T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-35T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2872.00	12.50	35900.00
B02-35T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2786.00	12.50	34825.00
B02-35T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2786.00	12.50	34825.00
B02-35T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2698.00	12.50	33725.00
B02-35T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2698.00	12.50	33725.00
B02-35T2-1P		9	Tee Weld Joint	FCAW	5		1F	1	9598.00	12.50	119975.00
B02-35T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	2580.00	12.50	32250.00
B02-35T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	1804.00	12.50	22550.00
B02-35T3-1S		9	Tee Weld Joint	FCAW	5		1F	1	2518.00	12.50	31475.00
B02-35T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	3568.00	12.50	44600.00
B02-35T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	11678.00	12.50	145975.00
B02-35T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	11678.00	12.50	145975.00
B02-35T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2428.00	12.50	30350.00
B02-35T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2428.00	12.50	30350.00
B02-35T3-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2338.00	12.50	29225.00

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
	(mm)	(mm)			Double Continues Weld	Slag Intermit Weld					
B02-35T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2338.00	12.50	29225.00
B02-35T3-24	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2246.00	12.50	28075.00
B02-35T4-1P		10	Tee Weld Joint	FCAW	5		3F	1	6780.00	12.50	84750.00
			Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
B02-35T4-1S		10	Tee Weld Joint	FCAW	5		3F	1	6780.00	12.50	84750.00
			Tee Weld Joint	FCAW	5		2G	6	6000.00	12.50	12500.00
B02-35T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5790.46	12.50	72380.71
B02-35T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5790.46	12.50	72380.71
B02-35T4-22P		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-35T4-22S		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-35T6-1S		10	Tee Weld Joint	FCAW	5		1F	1	9598.00	12.50	119975.00
B02-35T8-1P		9	Tee Weld Joint	FCAW	5		1F	1	7212.00	12.50	90150.00
B02-35T8-1S		9	Tee Weld Joint	FCAW	5		1F	1	7212.00	12.50	90150.00
B02-35T8-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3828.34	12.50	47854.23
B02-35T8-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3828.34	12.50	47854.23
B02-35T8-22P		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-35T8-22S		9	Tee Weld Joint	FCAW	5		2F	1	2040.00	12.50	25500.00
B02-35T9-1P		9	Tee Weld Joint	FCAW	5		1F	1	6124.00	12.50	76550.00
B02-35T9-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	6124.00	12.50	76550.00
									0.00	0.00	0.00
B02-36B1-1P		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00
B02-36B2-1S		9	Lapped Weld Joint	SMAW	5		3F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		2F	1	600.00	12.50	7500.00
B02-36B3-1P		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-36B3-1S		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-36T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	12144.00	12.50	151800.00
B02-36T1-1S		9	Tee Weld Joint	FCAW	5		1F	1	12144.00	12.50	151800.00
B02-36T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2870.00	12.50	35875.00
B02-36T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2870.00	12.50	35875.00
B02-36T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2772.00	12.50	34650.00
B02-36T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2772.00	12.50	34650.00
B02-36T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2668.00	12.50	33350.00
B02-36T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2668.00	12.50	33350.00
B02-36T2-1P		9	Tee Weld Joint	FCAW	5		1F	1	8638.00	12.50	107975.00
B02-36T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-36T3-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4256.00	12.50	53200.00
B02-36T3-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4256.00	12.50	53200.00
B02-36T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	11320.00	12.50	141500.00
B02-36T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2336.00	12.50	29200.00
B02-36T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2220.00	12.50	27750.00
B02-36T3-23P		10	Tee Weld Joint	FCAW	5		2F	1	5172.00	12.50	64650.00
B02-36T3-24P		10	Tee Weld Joint	FCAW	5		2F	1	5172.00	12.50	64650.00
B02-36T3-2P		14	Butt Weld Joint	FCAW	5		3G	5	9525.00	214.05	407765.44
			Tee Weld Joint	FCAW	5		3F	1	6976.00	12.50	87200.00
B02-36T5-1S		9	Tee Weld Joint	FCAW	5		1F	1	11320.00	12.50	141500.00
B02-36T5-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2336.00	12.50	29200.00
B02-36T5-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2220.00	12.50	27750.00
B02-36T5-23S		10	Tee Weld Joint	FCAW	5		2F	1	3168.00	12.50	39600.00
B02-36T5-2S		14	Butt Weld Joint	FCAW	5		3G	5	9525.00	214.05	407765.44
B02-36T6-1S		10	Tee Weld Joint	FCAW	5		1F	1	8638.00	12.50	107975.00
B02-36V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	3811.06	12.50	47638.24
B02-36V2-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	5902.59	12.50	73782.37
									0.00	0.00	0.00
B02-37B1-1P		9	Tee Weld Joint	FCAW	5		3F	1	2116.00	12.50	26450.00
B02-37B1-1S		9	Tee Weld Joint	FCAW	5		3F	1	2116.00	12.50	26450.00
B02-37T10-1P		10	Tee Weld Joint	FCAW	5		3F	1	6342.00	12.50	79275.00
B02-37T10-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	4262.00	12.50	53274.96
B02-37T11-1S		9	Tee Weld Joint	FCAW	5		1F	1	7368.00	12.50	92100.00
B02-37T11-21	FB	125*10.0	Tee Weld Joint	FCAW	5		2F	1	2278.00	12.50	28475.00
B02-37T11-22	FB	125*10.0	Tee Weld Joint	FCAW	5		2F	1	2136.00	12.50	26700.00
B02-37T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	12122.00	12.50	151525.00
B02-37T1-1S		9	Tee Weld Joint	FCAW	5		1F	1	12122.00	12.50	151525.00
B02-37T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		2F	1	2868.00	12.50	35850.00
B02-37T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		2F	1	2868.00	12.50	35850.00
B02-37T12-1S		10	Tee Weld Joint	FCAW	5		3F	1	6384.00	12.50	79800.00
B02-37T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2766.00	12.50	34575.00
B02-37T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2766.00	12.50	34575.00
B02-37T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2654.00	12.50	33175.00
B02-37T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2654.00	12.50	33175.00
B02-37T13-1S		9	Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		3F	1	6892.13	12.50	86151.59
B02-37T13-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	5864.66	12.50	73308.30
B02-37T2-1P		9	Tee Weld Joint	FCAW	5		2F	1	8568.00	12.50	107100.00
B02-37T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-37T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	7368.00	12.50	92100.00
B02-37T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2278.00	12.50	28475.00
B02-37T3-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2136.00	12.50	26700.00
B02-37T5-1P		10	Butt Weld Joint	FCAW	5		2G	7	3500.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		3F	1	4976.00	12.50	62200.00
B02-37T5-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3833.46	12.50	47918.24
B02-37T6-1P		9	Tee Weld Joint	FCAW	5		1F	1	6808.00	12.50	85100.00
B02-37T6-1S		10	Tee Weld Joint	FCAW	5		1F	1	6808.00	12.50	85100.00
B02-37T6-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3795.59	12.50	47444.83
B02-37T6-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3795.59	12.50	47444.83
B02-37T7-1P		9	Tee Weld Joint	FCAW	5		1F	1	8208.00	12.50	102600.00
B02-37T7-1S		9	Tee Weld Joint	FCAW	5		1F	1	8208.00	12.50	102600.00
B02-37T7-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7082.24	12.50	88528.00
B02-37T7-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7082.24	12.50	88528.00
B02-37T9-1P		10	Tee Weld Joint	FCAW	5		3F	1	4916.00	12.50	61450.00
B02-37T9-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	4357.56	12.50	54469.51
B02-37XT1-1P		9	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT1-21	FB	75*12.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT1-21	FB	75*12.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT1-22	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT1-22	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT1-22	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT1-22	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT1-23	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT1-23	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT1-24	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
	(mm)	(mm)			Double Continues Weld	Slag Intermit Weld					
B02-37XT1-25	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT1-26	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT1-27	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT1-2P		9	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT2-15		9	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT2-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	2340.00	12.50	29250.00
B02-37XT2-21	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT2-22	FB	75*12.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT2-23	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT2-24	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT2-25	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT2-26	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT2-26	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT2-26	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT2-27	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT2-27	L	75*75*6.0	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
B02-37XT2-25		9	Tee Weld Joint	FCAW	5		3F	1	4166.00	12.50	52075.00
									0.00	0.00	0.00
B02-38B1-1S		9	Tee Weld Joint	FCAW	5		3F	1	672.00	12.50	8400.00
			Lapped Weld Joint	SMAW	5		2F	1	685.00	12.50	8562.50
B02-38B2-1P		9	Lapped Weld Joint	SMAW	5		3F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		2F	1	1466.00	12.50	18325.00
B02-38B2-1S		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-38B3-1P		9	Lapped Weld Joint	SMAW	5		2F	1	490.00	12.50	6125.00
			Tee Weld Joint	FCAW	5		3F	1	600.00	12.50	7500.00
B02-38T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	13456.00	12.50	168200.00
B02-38T1-1S		9	Tee Weld Joint	FCAW	5		1F	1	13456.00	12.50	168200.00
B02-38T1-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	2886.00	12.50	36075.00
B02-38T1-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	2886.00	12.50	36075.00
B02-38T1-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	2776.00	12.50	34700.00
B02-38T1-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	2776.00	12.50	34700.00
B02-38T1-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	2654.00	12.50	33175.00
B02-38T1-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	2654.00	12.50	33175.00
B02-38T1-24P		9	Tee Weld Joint	FCAW	5		2F	1	1492.00	12.50	18650.00
B02-38T1-24S		9	Tee Weld Joint	FCAW	5		2F	1	1492.00	12.50	18650.00
B02-38T1-25P		9	Tee Weld Joint	FCAW	5		2F	1	1492.00	12.50	18650.00
B02-38T1-25S		9	Tee Weld Joint	FCAW	5		2F	1	1492.00	12.50	18650.00
B02-38T1-26P		9	Tee Weld Joint	FCAW	5		2F	1	1492.00	12.50	18650.00
B02-38T1-26S		9	Tee Weld Joint	FCAW	5		2F	1	1492.00	12.50	18650.00
B02-38T1-27P		9	Tee Weld Joint	FCAW	5		3F	1	1492.00	12.50	18650.00
B02-38T1-27P		9	Tee Weld Joint	FCAW	5		3F	1	1492.00	12.50	18650.00
B02-38T1-27P		9	Tee Weld Joint	FCAW	5		3F	1	1492.00	12.50	18650.00
B02-38T1-27S		9	Tee Weld Joint	FCAW	5		3F	1	1492.00	12.50	18650.00
B02-38T1-27S		9	Tee Weld Joint	FCAW	5		3F	1	1492.00	12.50	18650.00
B02-38T1-27S		9	Tee Weld Joint	FCAW	5		3F	1	1492.00	12.50	18650.00
B02-38T2-1P		9	Tee Weld Joint	FCAW	5		1F	1	8810.00	12.50	110125.00
B02-38T2-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2354.00	12.50	29425.00
B02-38T2-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	3313.27	12.50	41415.93
B02-38T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	15384.97	12.50	192312.09
B02-38T3-23P		10	Tee Weld Joint	FCAW	5		2F	1	3478.00	12.50	43475.00
B02-38T3-24P		10	Tee Weld Joint	FCAW	5		2F	1	3478.00	12.50	43475.00
B02-38T3-24P		14	Butt Weld Joint	FCAW	5		3G	5	5220.00	214.05	223468.30
B02-38T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4208.00	12.50	52600.00
B02-38T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4208.00	12.50	52600.00
B02-38T4-1S		9	Tee Weld Joint	FCAW	5		1F	1	10530.00	12.50	131625.00
B02-38T4-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2198.00	12.50	27475.00
B02-38T4-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2028.00	12.50	25350.00
B02-38T4-23S		10	Tee Weld Joint	FCAW	5		2F	1	2750.00	12.50	34375.00
B02-38T4-2S		14	Butt Weld Joint	FCAW	5		3G	5	5220.00	214.05	223468.30
B02-38T5-1S		14	Tee Weld Joint	FCAW	5		1F	1	9314.00	12.50	116425.00
B02-38T5-21	FB	150*10.0	Tee Weld Joint	FCAW	5		3F	1	2500.00	12.50	31250.00
B02-38T5-22	FB	150*10.0	Tee Weld Joint	FCAW	5		3F	1	2354.00	12.50	29425.00
B02-38V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	3944.48	12.50	49305.98
B02-38V2-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	3944.48	12.50	49305.98
									0.00	0.00	0.00
B02-39T1-1P		9	Tee Weld Joint	FCAW	5		1F	1	12054.00	12.50	150675.00
B02-39T1-1S		9	Tee Weld Joint	FCAW	5		1F	1	12054.00	12.50	150675.00
B02-39T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2864.00	12.50	35800.00
B02-39T1-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2864.00	12.50	35800.00
B02-39T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2740.00	12.50	34250.00
B02-39T1-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2740.00	12.50	34250.00
B02-39T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2604.00	12.50	32550.00
B02-39T1-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2604.00	12.50	32550.00
B02-39T2-1P		9	Tee Weld Joint	FCAW	5		1F	1	9006.00	12.50	112575.00
B02-39T2-1S		9	Tee Weld Joint	FCAW	5		1F	1	9006.00	12.50	112575.00
B02-39T2-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2278.00	12.50	28475.00
B02-39T2-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2278.00	12.50	28475.00
B02-39T2-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	3313.27	12.50	41415.93
B02-39T2-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	3313.27	12.50	41415.93
B02-39T3-1P		9	Tee Weld Joint	FCAW	5		1F	1	8712.00	12.50	108900.00
B02-39T3-1S		9	Tee Weld Joint	FCAW	5		1F	1	8712.00	12.50	108900.00
B02-39T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1892.00	12.50	23650.00
B02-39T3-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1892.00	12.50	23650.00
B02-39T3-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	1274.00	12.50	15925.00
B02-39T3-22	FB	100*12.0	Tee Weld Joint	FCAW	5		6F	1	1274.00	12.50	15925.00
B02-39T4-1P		9	Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		3F	1	7133.17	12.50	89164.60
B02-39T4-1S		10	Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		3F	1	7133.17	12.50	89164.60
B02-39T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6149.76	12.50	76872.01
B02-39T4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6149.76	12.50	76872.01
B02-39T5-1P		9	Tee Weld Joint	FCAW	5		1F	1	6988.00	12.50	87350.00
B02-39T5-1S		9	Tee Weld Joint	FCAW	5		1F	1	6988.00	12.50	87350.00
B02-39T5-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	6068.00	12.50	75850.00
B02-39T5-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	6068.00	12.50	75850.00
B02-39T6-1P		9	Tee Weld Joint	FCAW	5		1F	1	6754.00	12.50	84425.00
B02-39T6-1S		10	Tee Weld Joint	FCAW	5		1F	1	6754.00	12.50	84425.00
B02-39T6-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3835.50	12.50	47943.80
B02-39T6-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3835.50	12.50	47943.80
B02-39T6-22P		9	Tee Weld Joint	FCAW	5		2F	1	4038.00	12.50	50475.00
B02-39T6-22S		9	Tee Weld Joint	FCAW	5		2F	1	4038.00	12.50	50475.00
B02-39T7-1P		9	Tee Weld Joint	FCAW	5		2F	1	8324.00	12.50	104050.00

Part name	Ketebalan Plat (mm)		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
B02-3977-15		9	Tee Weld Joint	FCAW	5		2F	1	8324.00	12.50	104050.00
B02-3977-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	5863.68	12.50	73296.03
B02-3977-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	5863.68	12.50	73296.03
									0.00	0.00	0.00
B02-4081-1P		9	Tee Weld Joint	FCAW	5		3F	1	672.00	12.50	8400.00
			Lapped Weld Joint	SMAW	5		2F	1	685.00	12.50	8562.50
B02-4081-15		9	Tee Weld Joint	FCAW	5		3F	1	672.00	12.50	8400.00
			Lapped Weld Joint	SMAW	5		2F	1	685.00	12.50	8562.50
B02-4082-1P		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-4082-15		9	Lapped Weld Joint	SMAW	5		2F	1	1448.00	12.50	18100.00
			Tee Weld Joint	FCAW	5		3F	1	1466.00	12.50	18325.00
B02-4083-1P		9	Tee Weld Joint	FCAW	5		1F	1	800.00	12.50	10000.00
B02-4083-1P		9	Tee Weld Joint	FCAW	5		1F	1	800.00	12.50	10000.00
B02-4083-15		9	Tee Weld Joint	FCAW	5		1F	1	800.00	12.50	10000.00
B02-4083-15		9	Tee Weld Joint	FCAW	5		1F	1	800.00	12.50	10000.00
B02-4071-1P		9	Tee Weld Joint	FCAW	5		1F	1	13342.00	12.50	166775.00
B02-4071-15		9	Tee Weld Joint	FCAW	5		1F	1	13342.00	12.50	166775.00
B02-4071-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	2870.00	12.50	35875.00
B02-4071-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	2870.00	12.50	35875.00
B02-4071-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	2728.00	12.50	34100.00
B02-4071-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	2728.00	12.50	34100.00
B02-4071-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	2566.00	12.50	32075.00
B02-4071-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	2566.00	12.50	32075.00
B02-4071-24P		9	Tee Weld Joint	FCAW	5		2F	1	1482.00	12.50	18525.00
B02-4071-24S		9	Tee Weld Joint	FCAW	5		2F	1	1482.00	12.50	18525.00
B02-4071-25P		9	Tee Weld Joint	FCAW	5		2F	1	1482.00	12.50	18525.00
B02-4071-25S		9	Tee Weld Joint	FCAW	5		2F	1	1482.00	12.50	18525.00
B02-4071-26P		9	Tee Weld Joint	FCAW	5		2F	1	1482.00	12.50	18525.00
B02-4071-26S		9	Tee Weld Joint	FCAW	5		2F	1	1482.00	12.50	18525.00
B02-4071-27P		9	Tee Weld Joint	FCAW	5		2F	1	1482.00	12.50	18525.00
B02-4071-27P		9	Tee Weld Joint	FCAW	5		2F	1	1482.00	12.50	18525.00
B02-4071-27S		9	Tee Weld Joint	FCAW	5		2F	1	1482.00	12.50	18525.00
B02-4071-27S		9	Tee Weld Joint	FCAW	5		2F	1	1482.00	12.50	18525.00
B02-4072-1P		9	Tee Weld Joint	FCAW	5		1F	1	14466.00	12.50	180825.00
B02-4072-15		9	Tee Weld Joint	FCAW	5		1F	1	14466.00	12.50	180825.00
B02-4072-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	2188.00	12.50	27350.00
B02-4072-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	2188.00	12.50	27350.00
B02-4072-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1732.00	12.50	21650.00
B02-4072-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1732.00	12.50	21650.00
B02-4072-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	876.00	12.50	10950.00
B02-4072-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	876.00	12.50	10950.00
B02-4073-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4126.00	12.50	51575.00
B02-4073-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		1F	1	4126.00	12.50	51575.00
B02-40V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	6318.68	12.50	78983.51
B02-40V1-0	L	125*125*10.0	Tee Weld Joint	FCAW	5		3F	1	6318.68	12.50	78983.51
									0.00	0.00	0.00
B02-4111-1P		9	Tee Weld Joint	FCAW	5		1F	1	12364.00	12.50	154550.00
B02-4111-15		9	Tee Weld Joint	FCAW	5		1F	1	12364.00	12.50	154550.00
B02-4111-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2856.00	12.50	35700.00
B02-4111-21	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2856.00	12.50	35700.00
B02-4111-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2688.00	12.50	33600.00
B02-4111-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2688.00	12.50	33600.00
B02-4111-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2498.00	12.50	31225.00
B02-4111-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	2498.00	12.50	31225.00
B02-4112-1P		9	Tee Weld Joint	FCAW	5		1F	1	12344.00	12.50	154300.00
B02-4112-15		9	Tee Weld Joint	FCAW	5		1F	1	12344.00	12.50	154300.00
B02-4112-21	FB	125*10.0	Tee Weld Joint	FCAW	5		1F	1	2052.00	12.50	25650.00
B02-4112-21	FB	125*10.0	Tee Weld Joint	FCAW	5		1F	1	2052.00	12.50	25650.00
B02-4112-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1798.00	12.50	22475.00
B02-4112-22	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1798.00	12.50	22475.00
B02-4112-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1520.00	12.50	19000.00
B02-4112-23	FB	125*10.0	Tee Weld Joint	FCAW	5		3F	1	1520.00	12.50	19000.00
B02-4113-1C		10	Tee Weld Joint	FCAW	5		2F	1	2352.00	12.50	29400.00
B02-4113-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	2066.21	12.50	25827.64
B02-4114-1P		9	Tee Weld Joint	FCAW	5		2F	1	4844.00	12.50	60550.00
B02-4114-15		9	Tee Weld Joint	FCAW	5		2F	1	4844.00	12.50	60550.00
B02-4114-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	3215.58	12.50	40194.81
B02-4114-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	3215.58	12.50	40194.81
B02-4115-1P		9	Tee Weld Joint	FCAW	5		2F	1	4184.00	12.50	52300.00
B02-4115-15		9	Tee Weld Joint	FCAW	5		2F	1	4184.00	12.50	52300.00
B02-4115-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2615.54	12.50	32694.20
B02-4115-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2615.54	12.50	32694.20
B02-4117-1P		9	Tee Weld Joint	FCAW	5		1F	1	6988.00	12.50	87350.00
B02-4117-15		9	Tee Weld Joint	FCAW	5		1F	1	6988.00	12.50	87350.00
B02-4117-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	6068.00	12.50	75850.00
B02-4117-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	6068.00	12.50	75850.00
B02-4118-1P		9	Butt Weld Joint	FCAW	5		2G	6	3000.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		3F	1	7133.17	12.50	89164.60
B02-4118-15		10	Butt Weld Joint	FCAW	5		2G	7	3500.00	131.93	65966.65
			Tee Weld Joint	FCAW	5		3F	1	7133.17	12.50	89164.60
B02-4118-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	6149.76	12.50	76872.01
B02-4118-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	6149.76	12.50	76872.01
B02-4119-1P		9	Tee Weld Joint	FCAW	5		1F	1	6754.00	12.50	84425.00
B02-4119-15		10	Tee Weld Joint	FCAW	5		1F	1	6754.00	12.50	84425.00
B02-4119-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3835.50	12.50	47943.80
B02-4119-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	3835.50	12.50	47943.80
B02-4119-22P		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-4119-22S		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
									0.00	0.00	0.00
B02-4273-1C		8	Butt Weld Joint	FCAW	5		3F	1	7530.00	131.93	993457.75
B02-4273-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1300.00	12.50	16250.00
B02-4273-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1300.00	12.50	16250.00
B02-4273-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1300.00	12.50	16250.00
B02-4273-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1300.00	12.50	16250.00
B02-4273-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1300.00	12.50	16250.00
B02-4273-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1300.00	12.50	16250.00
B02-4273-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1300.00	12.50	16250.00
B02-4273-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1300.00	12.50	16250.00
B02-4273-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1300.00	12.50	16250.00
B02-4273-22P		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-4273-22P		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-4273-22P		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-4273-22P		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00

Part name	Ketebalan Plat (mm)		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
B02-42T3-22S		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-42T3-22S		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-42T3-22S		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-42T3-22S		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-42T4-1P		9	Tee Weld Joint	FCAW	5		2F	1	3400.00	12.50	42500.00
B02-42T4-1S		9	Tee Weld Joint	FCAW	5		2F	1	3400.00	12.50	42500.00
									0.00	0.00	0.00
B02-6LB1-1P		10	Tee Weld Joint	FCAW	5		2F	1	2280.00	12.50	28500.00
B02-6LB1-1S		10	Tee Weld Joint	FCAW	5		2F	1	2280.00	12.50	28500.00
B02-7LB1-1P		9	Lapped Weld Joint	SMAW	5		3F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		2F	1	1232.00	12.50	15400.00
B02-7LB1-1S		9	Lapped Weld Joint	SMAW	5		3F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		2F	1	1232.00	12.50	15400.00
B02-7LB2-1P		9	Lapped Weld Joint	SMAW	5		3F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		2F	1	1124.00	12.50	14050.00
B02-7LB2-1S		9	Lapped Weld Joint	SMAW	5		3F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		2F	1	1124.00	12.50	14050.00
B02-7LB3-1P		10	Tee Weld Joint	FCAW	5		2F	1	3178.00	12.50	39725.00
B02-7LB3-1S		10	Tee Weld Joint	FCAW	5		3F	1	3178.00	12.50	39725.00
B02-8LB1-1P		9	Lapped Weld Joint	SMAW	5		2F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		3F	1	1232.00	12.50	15400.00
B02-8LB1-1S		9	Lapped Weld Joint	SMAW	5		3F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		2F	1	1232.00	12.50	15400.00
B02-8LB2-1P		9	Lapped Weld Joint	SMAW	5		3F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		2F	1	1232.00	12.50	15400.00
B02-8LB2-1S		9	Lapped Weld Joint	SMAW	5		3F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		2F	1	1124.00	12.50	14050.00
B02-8LB3-1P		10	Tee Weld Joint	FCAW	5		2F	1	3178.00	12.50	39725.00
B02-8LB3-1S		10	Tee Weld Joint	FCAW	5		3F	1	3178.00	12.50	39725.00
B02-9LB1-1P		9	Lapped Weld Joint	SMAW	5		3F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		2F	1	1232.00	12.50	15400.00
B02-9LB1-1S		9	Lapped Weld Joint	SMAW	5		3F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		2F	1	1232.00	12.50	15400.00
B02-9LB2-1P		9	Lapped Weld Joint	SMAW	5		3F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		2F	1	1124.00	12.50	14050.00
B02-9LB2-1S		9	Lapped Weld Joint	SMAW	5		3F	1	440.00	12.50	5500.00
			Tee Weld Joint	FCAW	5		2F	1	1124.00	12.50	14050.00
B02-9LB3-1P		10	Tee Weld Joint	FCAW	5		3F	1	3178.00	12.50	39725.00
B02-9LB3-1S		10	Tee Weld Joint	FCAW	5		2F	1	3178.00	12.50	39725.00
									0.00	12.50	0.00
B02-BKL-1P		14	Tee Weld Joint	FCAW	9		2F	1	13816.62	40.50	559573.13
B02-BKL-1S		14	Tee Weld Joint	FCAW	9		2F	1	13816.62	40.50	559573.13
									0.00	0.00	0.00
B02-CG1-1C		10	Tee Weld Joint	FCAW	5		1F	1	16224.00	12.50	202800.00
B02-CG1-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	10102.00	12.50	126275.00
B02-CG1-22P		9	Lapped Weld Joint	SMAW	5		2F	1	450.00	12.50	5625.00
			Tee Weld Joint	FCAW	5		3F	1	710.00	12.50	8875.00
B02-CG1-22P		9	Lapped Weld Joint	SMAW	5		2F	1	450.00	12.50	5625.00
			Tee Weld Joint	FCAW	5		3F	1	710.00	12.50	8875.00
B02-CG1-22P		9	Lapped Weld Joint	SMAW	5		2F	1	450.00	12.50	5625.00
			Tee Weld Joint	FCAW	5		3F	1	710.00	12.50	8875.00
B02-CG1-22P		9	Lapped Weld Joint	SMAW	5		2F	1	450.00	12.50	5625.00
			Tee Weld Joint	FCAW	5		3F	1	710.00	12.50	8875.00
B02-CG1-22P		9	Lapped Weld Joint	SMAW	5		2F	1	450.00	12.50	5625.00
			Tee Weld Joint	FCAW	5		3F	1	710.00	12.50	8875.00
B02-CG1-22S		9	Lapped Weld Joint	SMAW	5		2F	1	450.00	12.50	5625.00
			Tee Weld Joint	FCAW	5		3F	1	710.00	12.50	8875.00
B02-CG1-22S		9	Lapped Weld Joint	SMAW	5		2F	1	450.00	12.50	5625.00
			Tee Weld Joint	FCAW	5		3F	1	710.00	12.50	8875.00
B02-CG1-22S		9	Lapped Weld Joint	SMAW	5		2F	1	450.00	12.50	5625.00
			Tee Weld Joint	FCAW	5		3F	1	710.00	12.50	8875.00
B02-CG1-22S		9	Lapped Weld Joint	SMAW	5		2F	1	450.00	12.50	5625.00
			Tee Weld Joint	FCAW	5		3F	1	710.00	12.50	8875.00
B02-CG1-23	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	5140.00	12.50	64250.00
B02-CG1-2C		10	Butt Weld Joint	FCAW	5		2G	6	2400.00	131.93	52773.32
B02-CG2-1C		10	Tee Weld Joint	FCAW	5		3F	1	4574.00	12.50	57175.00
B02-CG2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	2337.56	12.50	29219.45
B02-CG3-1C		10	Tee Weld Joint	FCAW	5		1F	1	6330.00	12.50	79125.00
B02-CG3-21	FB	100*10.0	Tee Weld Joint	FCAW	5		2F	1	5409.87	12.50	67623.33
B02-CG3-22P		9	Tee Weld Joint	FCAW	5		2F	1	1000.00	12.50	12500.00
B02-CG3-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000.00	12.50	12500.00
B02-CG3-23P		9	Tee Weld Joint	FCAW	5		2F	1	1000.00	12.50	12500.00
B02-CG3-23P		9	Tee Weld Joint	FCAW	5		3F	1	1000.00	12.50	12500.00
B02-CG3-23S		9	Tee Weld Joint	FCAW	5		2F	1	1000.00	12.50	12500.00
B02-CG3-23S		9	Tee Weld Joint	FCAW	5		3F	1	1000.00	12.50	12500.00
B02-CG4-1C		10	Tee Weld Joint	FCAW	5		3F	1	7326.00	12.50	91575.00
B02-CG4-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	7043.59	12.50	88044.84
B02-CG4-22P		9	Tee Weld Joint	FCAW	5		2F	1	1000.00	12.50	12500.00
B02-CG5-1C		9	Tee Weld Joint	FCAW	5		2F	1	2086.00	12.50	26075.00
B02-CG5-21	FB	100*10.0	Tee Weld Joint	FCAW	5		2F	1	802.00	12.50	10025.00
B02-CG6-1C		9	Tee Weld Joint	FCAW	5		3F	1	1984.00	12.50	24800.00
B02-CG6-21	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	1012.00	12.50	12650.00
B02-CG7-1C		10	Tee Weld Joint	FCAW	5		1F	1	3658.00	12.50	45725.00
B02-CG7-21	FB	150*16.0	Tee Weld Joint	FCAW	5		2F	1	1044.00	12.50	13050.00
B02-CG81-1C		10	Tee Weld Joint	FCAW	5		2F	1	2216.00	12.50	27700.00
									0.00	0.00	0.00
B02-CH2-1P		9	Tee Weld Joint	FCAW	5		2F	1	1282.00	12.50	16025.00
B02-CH2-1S		9	Tee Weld Joint	FCAW	5		2F	1	1282.00	12.50	16025.00
B02-CH3-1S		9	Tee Weld Joint	FCAW	5		2F	1	1282.00	12.50	16025.00
B02-CH4-1S		9	Tee Weld Joint	FCAW	5		2F	1	1282.00	12.50	16025.00
B02-CHI-1P		9	Tee Weld Joint	FCAW	5		2F	1	1282.00	12.50	16025.00
B02-CHI-1S		9	Tee Weld Joint	FCAW	5		2F	1	1282.00	12.50	16025.00
B02-CHL10-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL10-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL11-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL11-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL11-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45

Part name	Ketebalan Plat (mm)		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermit Weld					
B02-CHL1-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL12-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL12-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL13-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL13-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL14-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL14-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL15-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL15-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL16-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL16-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL17-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL17-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL18-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL18-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL19-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL19-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL20-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL20-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL21-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL21-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL2-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL2-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL22-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL22-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL23-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL23-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL241P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL241S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL3A-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL3A-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL4-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL4-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL5-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL5-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL6-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL6-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL7-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL7-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL8-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL8-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL9-1P		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHL9-1S		8	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHLTT-1P		9	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
B02-CHLTT-1S		9	Tee Weld Joint	FCAW	5		1F	1	1367.40	12.50	17092.45
									0.00		0.00
B02-CPL1-1P		10	Tee Weld Joint	FCAW	5		1F	1	1260.00	12.50	15750.00
B02-CPL1-1S		10	Tee Weld Joint	FCAW	5		1F	1	1260.00	12.50	15750.00
B02-CPL2-1P		10	Tee Weld Joint	FCAW	5		1F	1	1260.00	12.50	15750.00
B02-CPL2-1S		10	Tee Weld Joint	FCAW	5		1F	1	1260.00	12.50	15750.00
B02-CPL3-1P		10	Tee Weld Joint	FCAW	5		1F	1	1260.00	12.50	15750.00
B02-CPL3-1S		10	Tee Weld Joint	FCAW	5		1F	1	1260.00	12.50	15750.00
B02-CPL4-1P		10	Tee Weld Joint	FCAW	5		1F	1	1260.00	12.50	15750.00
B02-CPL4-1S		10	Tee Weld Joint	FCAW	5		1F	1	1260.00	12.50	15750.00
B02-CW1-1C		10	Tee Weld Joint	FCAW	5		1F	1	56969.48	12.50	712118.47
B02-CW1-21	FB	100*10.0	Tee Weld Joint	FCAW	5		1F	1	1000.00	12.50	12500.00
B02-CW1-21	FB	100*10.0	Tee Weld Joint	FCAW	5		1F	1	1000.00	12.50	12500.00
B02-CW1-2C		10	Butt Weld Joint	FCAW	5		1F	1	1500.00	131.93	197899.95
B02-CW2-1C		10	Tee Weld Joint	FCAW	5		1F	1	12470.00	12.50	155875.00
									0.00		0.00
B02-DHS1-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	7078.00	12.50	88475.00
B02-DHS1-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	7078.00	12.50	88475.00
B02-DHS1-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	7078.00	12.50	88475.00
B02-DHS1-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	7078.00	12.50	88475.00
B02-DHS1-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	7078.00	12.50	88475.00
B02-DHS1-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	7078.00	12.50	88475.00
B02-DHS1-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	7078.00	12.50	88475.00
B02-DHS1-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	6078.00	12.50	75975.00
B02-DHS1-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	6078.00	12.50	75975.00
B02-DHS1-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	6078.00	12.50	75975.00
B02-DHS1-24P		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-DHS1-24P		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-DHS1-24P		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-DHS1-24P		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-DHS1-24S		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-DHS1-24S		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-DHS1-24S		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-DHS1-24S		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-DHS1-24S		9	Tee Weld Joint	FCAW	5		2F	1	2036.00	12.50	25450.00
B02-DHS1-25	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	4022.00	12.50	50275.00
B02-DHS1-25	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	4022.00	12.50	50275.00
B02-DHS1-26	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	4022.00	12.50	50275.00
B02-DHS1-26	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	4022.00	12.50	50275.00
B02-DHS1-27	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	4022.00	12.50	50275.00
B02-DHS1-27	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	4022.00	12.50	50275.00
B02-DHS1-28	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	4022.00	12.50	50275.00
B02-DHS1-29	FB	100*8.0	Tee Weld Joint	FCAW	5		3F	1	4022.00	12.50	50275.00
									0.00		0.00
B02-DLSB1-1P		9	Tee Weld Joint	FCAW	5		1F	1	1000.00	12.50	12500.00
B02-DLSB1-21	FB	100*10.0	Tee Weld Joint	FCAW	5		2F	1	4002.00	12.50	50025.00
									0.00		0.00
B02-EB1A-1P		25	Corner Weld Joint	FCAW	16		3F	16	75040.00	128.00	600320.00
			Butt Weld Joint	FCAW	16		3G	16	12800.00	594.85	475880.88
B02-EB1A-1S		25	Corner Weld Joint	FCAW	16		3F	16	75040.00	128.00	600320.00
			Butt Weld Joint	FCAW	16		3G	16	12800.00	594.85	475880.88
B02-EB2A-1P		25	Corner Weld Joint	FCAW	16		3F	16	75040.00	128.00	600320.00
			Butt Weld Joint	FCAW	16		3G	16	12800.00	594.85	475880.88
B02-EB2A-1S		25	Corner Weld Joint	FCAW	16		3F	16	75040.00	128.00	600320.00
			Butt Weld Joint	FCAW	16		3G	16	12800.00	594.85	475880.88

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
	(mm)	(mm)			Double Continues Weld	Slag Intermit Weld					
											0.00
B02-EG1-1P		18	Tee Weld Joint	FCAW	11.5		1F	1	9600.00	66.13	634800.00
B02-EG1-1S		18	Tee Weld Joint	FCAW	11.5		1F	1	9600.00	66.13	634800.00
B02-EG1-2P		18	Tee Weld Joint	FCAW	11.5		1F	1	9600.00	66.13	634800.00
B02-EG1-2S		18	Tee Weld Joint	FCAW	11.5		1F	1	9600.00	66.13	634800.00
B02-EG2-1P		18	Tee Weld Joint	FCAW	11.5		1F	1	9600.00	66.13	634800.00
B02-EG2-1S		18	Tee Weld Joint	FCAW	11.5		1F	1	9600.00	66.13	634800.00
B02-EG2-2P		18	Tee Weld Joint	FCAW	11.5		1F	1	9600.00	66.13	634800.00
B02-EG2-2S		18	Tee Weld Joint	FCAW	11.5		1F	1	9600.00	66.13	634800.00
									0.00	0.00	0.00
B02-FOD1-21	FB	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	3622.00	12.50	45275.00
B02-FOD1-21	FB	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	3622.00	12.50	45275.00
B02-FOD1-23P		9	Lapped Weld Joint	SMAW	6		2F	1	868.00	18.00	15624.00
B02-FOD1-23P		9	Lapped Weld Joint	SMAW	6		2F	1	868.00	18.00	15624.00
B02-FOD1-23S		9	Lapped Weld Joint	SMAW	6		2F	1	868.00	18.00	15624.00
B02-FOD1-23S		9	Lapped Weld Joint	SMAW	6		2F	1	868.00	18.00	15624.00
B02-FOD1-24P		9	Lapped Weld Joint	SMAW	6		2F	1	868.00	18.00	15624.00
B02-FOD1-24S		9	Lapped Weld Joint	SMAW	6		2F	1	868.00	18.00	15624.00
B02-FOD1-25P		9	Lapped Weld Joint	SMAW	6		2F	1	868.00	18.00	15624.00
B02-FOD1-25S		9	Lapped Weld Joint	SMAW	6		2F	1	868.00	18.00	15624.00
B02-FOD1-26P		9	Lapped Weld Joint	SMAW	6		2F	1	868.00	18.00	15624.00
B02-FOD1-26S		9	Lapped Weld Joint	SMAW	6		2F	1	868.00	18.00	15624.00
B02-FOD2-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	620.00	12.50	7750.00
B02-FOD2-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	620.00	12.50	7750.00
B02-FOD2-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	620.00	12.50	7750.00
B02-FOD2-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	620.00	12.50	7750.00
B02-FOD2-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1694.00	12.50	21175.00
B02-FOD2-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1694.00	12.50	21175.00
B02-FOD2-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1694.00	12.50	21175.00
B02-FOD2-22	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1694.00	12.50	21175.00
B02-FOD2-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1186.00	12.50	14825.00
B02-FOD2-23	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	1186.00	12.50	14825.00
B02-FOD2-24	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	508.00	12.50	6350.00
B02-FOD2-24	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	508.00	12.50	6350.00
									0.00	0.00	0.00
B02-LAD2-1C		9	Tee Weld Joint	FCAW	6		1F	1	1964.00	18.00	35352.00
B02-LAD3-1P		9	Tee Weld Joint	FCAW	6		1F	1	660.00	18.00	11880.00
			Corner Weld Joint	FCAW	6		1F	1	2142.00	18.00	38556.00
B02-LAD3-1S		9	Tee Weld Joint	FCAW	6		1F	1	660.00	18.00	11880.00
			Corner Weld Joint	FCAW	6		1F	1	2142.00	18.00	38556.00
B02-LAD4-1P		9	Tee Weld Joint	FCAW	6		1F	1	660.00	18.00	11880.00
			Corner Weld Joint	FCAW	6		1F	1	2142.00	18.00	38556.00
B02-LAD4-1S		9	Tee Weld Joint	FCAW	6		1F	1	660.00	18.00	11880.00
			Corner Weld Joint	FCAW	6		1F	1	2142.00	18.00	38556.00
B02-LAD5-1P		9	Tee Weld Joint	FCAW	6		1F	1	660.00	18.00	11880.00
			Corner Weld Joint	FCAW	6		1F	1	2142.00	18.00	38556.00
B02-LAD5-1S		9	Tee Weld Joint	FCAW	6		1F	1	660.00	18.00	11880.00
			Corner Weld Joint	FCAW	6		1F	1	2142.00	18.00	38556.00
B02-LAD6-1P		9	Tee Weld Joint	FCAW	6		1F	1	660.00	18.00	11880.00
			Corner Weld Joint	FCAW	6		1F	1	2142.00	18.00	38556.00
B02-LAD6-1S		9	Tee Weld Joint	FCAW	6		1F	1	660.00	18.00	11880.00
			Corner Weld Joint	FCAW	6		1F	1	2142.00	18.00	38556.00
B02-LAD7-1P		9	Tee Weld Joint	FCAW	6		1F	1	660.00	18.00	11880.00
			Corner Weld Joint	FCAW	6		1F	1	2142.00	18.00	38556.00
B02-LAD7-1S		9	Tee Weld Joint	FCAW	6		1F	1	660.00	18.00	11880.00
			Corner Weld Joint	FCAW	6		1F	1	2142.00	18.00	38556.00
B02-LAD8-1P		9	Tee Weld Joint	FCAW	6		1F	1	660.00	18.00	11880.00
			Corner Weld Joint	FCAW	6		1F	1	2142.00	18.00	38556.00
B02-LAD8-1S		9	Tee Weld Joint	FCAW	6		1F	1	660.00	18.00	11880.00
									0.00	0.00	0.00
B02-SG2-1P		9	Butt Weld Joint	FCAW	6		2G	6	13800.00	594.85	1368157.53
			Tee Weld Joint	FCAW	6		3F	1	4200.00	18.00	75600.00
B02-SG2-1S		9	Butt Weld Joint	FCAW	6		2G	6	13800.00	594.85	1368157.53
			Tee Weld Joint	FCAW	6		3F	1	4200.00	18.00	75600.00
B02-SG2-25P		9	Lapped Weld Joint	SMAW	6		2F	1	500.00	18.00	9000.00
			Tee Weld Joint	FCAW	6		3F	1	600.00	18.00	10800.00
B02-SG2-25S		9	Lapped Weld Joint	SMAW	6		2F	1	500.00	18.00	9000.00
			Tee Weld Joint	FCAW	6		3F	1	600.00	18.00	10800.00
B02-SG2-26P		9	Lapped Weld Joint	SMAW	6		2F	1	500.00	18.00	9000.00
			Tee Weld Joint	FCAW	6		3F	1	600.00	18.00	10800.00
B02-SG2-26S		9	Lapped Weld Joint	SMAW	6		2F	1	500.00	18.00	9000.00
			Tee Weld Joint	FCAW	6		3F	1	600.00	18.00	10800.00
B02-SG2-27P		9	Lapped Weld Joint	SMAW	6		2F	1	500.00	18.00	9000.00
			Tee Weld Joint	FCAW	6		3F	1	600.00	18.00	10800.00
B02-SG2-27S		9	Lapped Weld Joint	SMAW	6		2F	1	500.00	18.00	9000.00
			Tee Weld Joint	FCAW	6		3F	1	600.00	18.00	10800.00
B02-SG3-22P		9	Lapped Weld Joint	SMAW	6		2F	1	250.00	18.00	4500.00
			Tee Weld Joint	FCAW	6		3F	1	522.00	18.00	9396.00
B02-SG3-22P		9	Lapped Weld Joint	SMAW	6		2F	1	250.00	18.00	4500.00
			Tee Weld Joint	FCAW	6		3F	1	522.00	18.00	9396.00
B02-SG4-22S		9	Lapped Weld Joint	SMAW	6		2F	1	250.00	18.00	4500.00
			Tee Weld Joint	FCAW	6		3F	1	522.00	18.00	9396.00
B02-SG4-23S		9	Lapped Weld Joint	SMAW	6		2F	1	250.00	18.00	4500.00
			Tee Weld Joint	FCAW	6		3F	1	522.00	18.00	9396.00
B02-SG5A-22P		9	Tee Weld Joint	FCAW	6		2F	1	1000.00	18.00	18000.00
B02-SG5A-22S		9	Tee Weld Joint	FCAW	6		3F	1	1000.00	18.00	18000.00
B02-SG5A-23P		9	Lapped Weld Joint	SMAW	6		2F	1	250.00	18.00	4500.00
			Tee Weld Joint	FCAW	6		3F	1	522.00	18.00	9396.00
B02-SG5A-23P		9	Lapped Weld Joint	SMAW	6		2F	1	250.00	18.00	4500.00
			Tee Weld Joint	FCAW	6		3F	1	522.00	18.00	9396.00
B02-SG5A-23S		9	Lapped Weld Joint	SMAW	6		2F	1	250.00	18.00	4500.00
			Tee Weld Joint	FCAW	6		3F	1	522.00	18.00	9396.00
B02-SG5A-23S		9	Lapped Weld Joint	SMAW	6		2F	1	250.00	18.00	4500.00
			Tee Weld Joint	FCAW	6		3F	1	522.00	18.00	9396.00
B02-SG6-1P		9	Tee Weld Joint	FCAW	6		2F	1	8882.00	18.00	159876.00
B02-SG6-1S		9	Tee Weld Joint	FCAW	6		3F	1	8882.00	18.00	159876.00
B02-SG6-21	FB	75*10.0	Tee Weld Joint	FCAW	6		3F	1	5201.44	18.00	93625.91
B02-SG6-21	FB	75*10.0	Tee Weld Joint	FCAW	6		3F	1	5201.44	18.00	93625.91
B02-SG6-22P		9	Tee Weld Joint	FCAW	6		2F	1	1502.00	18.00	27036.00
B02-SG6-22P		9	Tee Weld Joint	FCAW	6		3F	1	1502.00	18.00	27036.00
B02-SG6-22S		9	Tee Weld Joint	FCAW	6		2F	1	1502.00	18.00	27036.00
B02-SG6-22S		9	Tee Weld Joint	FCAW	6		3F	1	1502.00	18.00	27036.00
B02-SG6A-1P		9	Tee Weld Joint	FCAW	6		2F	1	8882.00	18.00	159876.00

Part name	Ketebalan Plat (mm)		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
					Double Continues Weld	Slag Intermitt Weld					
			Tee Weld Joint	FCAW	11.5		1F	1	1800.00	66.13	119025.00
B02-SW1D-1P		18	Tee Weld Joint	FCAW	11.5		1F	1	2512.00	66.13	166106.00
B02-SW1D-1S		18	Tee Weld Joint	FCAW	11.5		1F	1	2512.00	66.13	166106.00
B02-SW1D-21	FB	150*12.0	Tee Weld Joint	FCAW	7.5		3F	1	1104.49	28.13	31063.70
B02-SW1D-21	FB	150*12.0	Tee Weld Joint	FCAW	7.5		3F	1	1104.49	28.13	31063.70
B02-SW2-1P		10	Butt Weld Joint	FCAW	6.5		3G	3	4836.00	131.93	212676.48
			Tee Weld Joint	FCAW	6.5		1F	1	3246.00	21.13	68571.75
B02-SW2-1S		10	Butt Weld Joint	FCAW	6.5		3G	3	4836.00	131.93	212676.48
			Tee Weld Joint	FCAW	6.5		1F	3	9738.00	21.13	68571.75
B02-SW2-2P		18	Butt Weld Joint	FCAW	11.5		3G	7	11284.00	438.47	706809.93
			Tee Weld Joint	FCAW	11.5		1F	1	3246.00	66.13	214641.75
B02-SW2-2S		18	Butt Weld Joint	FCAW	11.5		3G	7	11284.00	438.47	706809.93
			Tee Weld Joint	FCAW	11.5		1F	1	3246.00	66.13	214641.75
B02-SW2A-1P		18	Butt Weld Joint	FCAW	11.5		3G	7	17542.00	438.47	1098800.06
			Tee Weld Joint	FCAW	11.5		1F	1	3704.00	66.13	244927.00
B02-SW2B-1P		18	Butt Weld Joint	FCAW	11.5		3G	7	17542.00	438.47	1098800.06
			Tee Weld Joint	FCAW	11.5		1F	1	3704.00	66.13	244927.00
B02-SW2C-1P		18	Butt Weld Joint	FCAW	11.5		3G	7	17542.00	438.47	1098800.06
			Tee Weld Joint	FCAW	11.5		1F	1	3704.00	66.13	244927.00
B02-SW2C-1S		18	Butt Weld Joint	FCAW	11.5		3G	7	17542.00	438.47	1098800.06
			Tee Weld Joint	FCAW	11.5		1F	1	3704.00	66.13	244927.00
B02-SW2D-1S		18	Butt Weld Joint	FCAW	11.5		3G	7	17262.00	438.47	1081261.35
			Tee Weld Joint	FCAW	11.5		1F	1	4804.00	66.13	317664.50
B02-SW2E-1P		18	Butt Weld Joint	FCAW	11.5		3G	7	9149.00	438.47	573077.28
			Tee Weld Joint	FCAW	11.5		1F	1	1804.00	66.13	119289.50
B02-SW2E-1S		18	Butt Weld Joint	FCAW	11.5		3G	7	9149.00	438.47	573077.28
			Tee Weld Joint	FCAW	11.5		1F	1	1804.00	66.13	119289.50
B02-SW2F-1S		18	Butt Weld Joint	FCAW	11.5		3G	7	8176.00	438.47	512130.27
			Tee Weld Joint	FCAW	11.5		1F	1	702.00	66.13	46419.75
											0.00
B02-TWDK1-1P		9	Tee Weld Joint	FCAW	6		1F	1	22000.00	18.00	396000.00
B02-TWDK1-1S		9	Tee Weld Joint	FCAW	6		1F	1	22000.00	18.00	396000.00
B02-TWDK1-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	6200.00	12.50	77500.00
B02-TWDK1-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	6200.00	12.50	77500.00
B02-TWDK1-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	6200.00	12.50	77500.00
B02-TWDK1-21	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	6200.00	12.50	77500.00
B02-TWDK1-22	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	6200.00	12.50	77500.00
B02-TWDK1-22	FB	100*10.0	Tee Weld Joint	FCAW	5		3F	1	6200.00	12.50	77500.00
B02-TWDK1-2P		9	Butt Weld Joint	FCAW	5		1G	6	14400.00	12.50	30000.00
B02-TWDK1-2S		9	Butt Weld Joint	FCAW	5		1G	6	14400.00	12.50	30000.00
											0.00
ERECTION		12	Butt Weld Joint	FCAW	6.5		2G	10	172992.78	170.41	2947978.61
		12	Butt Weld Joint	FCAW	6.5		2G	10	172992.78	170.41	2947978.61
		12	Butt Weld Joint	FCAW	6.5		3G	7	61061.21	170.41	1486495.90
		12	Butt Weld Joint	FCAW	6.5		3G	7	61061.21	170.41	1486495.90
		12	Butt Weld Joint	FCAW	6.5		3G	7	3857.00	170.41	93896.19
		12	Butt Weld Joint	FCAW	6.5		3G	7	3857.00	170.41	93896.19
		12	Butt Weld Joint	FCAW	6.5		3G	7	44366.00	170.41	1080061.75
		12	Butt Weld Joint	FCAW	6.5		3G	7	44366.00	170.41	1080061.75
											0.00
		12	Butt Weld Joint	SMAW	6.5		1G	1	1000.00	170.41	170410.50
		12	Butt Weld Joint	SMAW	6.5		3G	1	1000.00	170.41	170410.50

ASSEMBLY PART LIST BLOCK B03											
HARBOR TUG 2x2200 HP PT.DUMAS											
Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
	(mm)				Double Continuues Weld	Slag Intermit Weld					
B03-43B1-1P	300 x 9		Tee Weld Joint	FCAW	5		3F	1	1002.0386	12.5	12525.4825
B03-44B1-1P	9		Tee Weld Joint	FCAW	5		3F	1	1234.6698	12.5	15433.3725
			Lapped Weld Joint	SMAW	5		2F	1	1035.3264	12.5	12941.58
B03-44B1-1S	9		Tee Weld Joint	FCAW	5		3F	1	1234.6698	12.5	15433.3725
			Lapped Weld Joint	SMAW	5		2F	1	1035.3264	12.5	12941.58
B03-44B2-1P	9		Tee Weld Joint	FCAW	5		3F	1	701.4704	12.5	8768.38
			Lapped Weld Joint	SMAW	5		2F	1	382.657	12.5	4783.2125
B03-44B2-1S	9		Tee Weld Joint	FCAW	5		3F	1	701.4704	12.5	8768.38
			Lapped Weld Joint	SMAW	5		2F	1	382.657	12.5	4783.2125
B03-46B1-1P	9		Tee Weld Joint	FCAW	5		3F	1	1228.32	12.5	15354
			Lapped Weld Joint	SMAW	5		2F	1	935.2368	12.5	11690.46
B03-46B1-1S	9		Tee Weld Joint	FCAW	5		3F	1	1228.32	12.5	15354
			Lapped Weld Joint	SMAW	5		2F	1	935.2368	12.5	11690.46
B03-48B1-1P	9		Tee Weld Joint	FCAW	5		3F	1	1232.2304	12.5	15402.88
			Lapped Weld Joint	SMAW	5		2F	1	766.7623	12.5	9584.52875
B03-48B1-1S	9		Tee Weld Joint	FCAW	5		3F	1	1232.2304	12.5	15402.88
			Lapped Weld Joint	SMAW	5		2F	1	766.7623	12.5	9584.52875
B03-48B2-1P	9		Tee Weld Joint	FCAW	5		3F	1	600	12.5	7500
			Lapped Weld Joint	SMAW	5		2F	1	349.9725	12.5	4374.65625
B03-49B51-1P			Tee Weld Joint	FCAW	5		3F	1	1173.8936	12.5	14673.67
			Lapped Weld Joint	SMAW	5		2F	1	369.8754	12.5	4623.4425
B03-49B51-1S	9		Tee Weld Joint	FCAW	5		3F	1	1173.8936	12.5	14673.67
			Lapped Weld Joint	SMAW	5		2F	1	369.8754	12.5	4623.4425
B03-49B52-1P	9		Tee Weld Joint	FCAW	5		3F	1	1098.3728	12.5	13729.66
			Lapped Weld Joint	SMAW	5		2F	1	297.0759	12.5	3713.44875
B03-49B52-1S	9		Tee Weld Joint	FCAW	5		3F	1	1098.3728	12.5	13729.66
			Lapped Weld Joint	SMAW	5		2F	1	297.0759	12.5	3713.44875
B03-49B53-1P	9		Tee Weld Joint	FCAW	5		3F	1	1123.8988	12.5	14048.735
			Lapped Weld Joint	SMAW	5		2F	1	330.2003	12.5	4127.50375
B03-49B53-1S	9		Tee Weld Joint	FCAW	5		3F	1	1123.8988	12.5	14048.735
			Lapped Weld Joint	SMAW	5		2F	1	330.2003	12.5	4127.50375
B03-50B1-1P	9		Tee Weld Joint	FCAW	5		3F	1	1249.658	12.5	15620.725
			Lapped Weld Joint	SMAW	5		2F	1	1038.646	12.5	12983.075
B03-50B1-1S	9		Tee Weld Joint	FCAW	5		3F	1	1249.658	12.5	15620.725
			Lapped Weld Joint	SMAW	5		2F	1	1038.646	12.5	12983.075
B03-50B2-1P			Tee Weld Joint	FCAW	5		3F	1	534.6286	12.5	6682.8575
			Lapped Weld Joint	SMAW	5		2F	1	358.1316	12.5	4476.645
B03-50B2-1S	9		Tee Weld Joint	FCAW	5		3F	1	534.6286	12.5	6682.8575
			Lapped Weld Joint	SMAW	5		2F	1	358.1316	12.5	4476.645
B03-54B1-1C	10		Tee Weld Joint	FCAW	6.5		3F	1	1001.2346	21.125	21151.08093
B03-54B2-1P	10		Tee Weld Joint	FCAW	6.5		2F	1	1240.07	21.125	26196.47875
B03-54B2-1S	10		Tee Weld Joint	FCAW	6.5		3F	1	1240.07	21.125	26196.47875
B03-54B3-1P	10		Tee Weld Joint	FCAW	6.5		2F	1	1240.07	21.125	26196.47875
B03-54B3-1S	10		Tee Weld Joint	FCAW	6.5		3F	1	1240.07	21.125	26196.47875
B03-55B1-1P	10		Tee Weld Joint	FCAW	6.5		2F	1	753.2718	21.125	15912.86678
			Lapped Weld Joint	SMAW	6.5		3F	1	315.1776	21.125	6658.1268
B03-55B1-1S	10		Tee Weld Joint	FCAW	6.5		3F	1	753.2718	21.125	15912.86678
			Lapped Weld Joint	SMAW	6.5		2F	1	315.1776	21.125	6658.1268
B03-55B2-1P			Tee Weld Joint	FCAW	6.5		3F	1	1308.02	21.125	27631.9225
B03-55B2-1S			Tee Weld Joint	FCAW	6.5		1F	1	1308.02	21.125	27631.9225
B03-55B3-1P	10		Tee Weld Joint	FCAW	6.5		3F	1	2808.7616	21.125	59335.0888
B03-55B3-1S	10		Tee Weld Joint	FCAW	6.5		3F	1	2808.7016	21.125	59333.8213
B03-56B1-1C	9		Tee Weld Joint	FCAW	6		3F	1	1364.1024	18	24553.8432
B03-57B1-1C	9		Tee Weld Joint	FCAW	6		1F	1	1336.1246	18	24050.2428
B03-43T2-22P	9		Tee Weld Joint	FCAW	6		3F	1	500	18	9000
			Tee Weld Joint	FCAW	6		3F	1	500	18	9000
B03-42T1-22	100 x 100 x 8		Tee Weld Joint	FCAW	5.5		3F	1	2652.99	15.125	40126.47375
B03-42T1-22	100 x 100 x 8		Tee Weld Joint	FCAW	5.5		3F	1	2652.99	15.125	40126.47375
B03-42T1-23	100 x 100 x 8		Tee Weld Joint	FCAW	5.5		3F	1	1911.23	15.125	28907.35375
B03-42T1-23	100 x 100 x 8		Tee Weld Joint	FCAW	5.5		3F	1	1911.23	15.125	28907.35375
B03-42T1-25	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	805.09	15.125	12176.98625
B03-42T1-28	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1831	15.125	27693.875
B03-42T1-28	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1831	15.125	27693.875
B03-42T1-28	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1830.995	15.125	27693.79938
B03-42T1-28	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1830.995	15.125	27693.79938
B03-42T1-28	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1830.995	15.125	27693.79938
B03-42T1-28	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1830.995	15.125	27693.79938
B03-42T1-28	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1830.995	15.125	27693.79938
B03-42T1-29	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1754.102	15.125	26530.79275
B03-42T1-29	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1754.102	15.125	26530.79275
B03-42T1-29	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1754.2819	15.125	26533.51374
B03-42T1-29	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1754.2819	15.125	26533.51374
B03-42T1-29	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1754.2819	15.125	26533.51374
B03-42T1-29	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1753.3322	15.125	26519.14953
B03-42T1-29	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1753.3322	15.125	26519.14953
B03-42T1-30	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	3770.24	15.125	57024.88
B03-42T1-30	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	3770.24	15.125	57024.88
B03-42T1-30	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	3765.225	15.125	56949.02813
B03-42T1-30	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	3765.225	15.125	56949.02813
B03-42T1-32	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1400.23	15.125	21178.47875
B03-42T1-32	L 100*100*8.0		Tee Weld Joint	FCAW		5.5	3F	1	1400.23	15.125	21178.47875
B03-42T1-34P	9		Tee Weld Joint	FCAW	6		3F	1	1485.0962	18	26731.7316
B03-42T1-34S	9		Tee Weld Joint	FCAW	6		1F	1	1485.0962	18	26731.7316
B03-42T1-35P	9		Tee Weld Joint	FCAW	6		3F	1	1483.3666	18	26700.5988
B03-42T1-35S	9		Tee Weld Joint	FCAW	6		1F	1	1483.3666	18	26700.5988
B03-42T1-36P	9		Tee Weld Joint	FCAW	6		3F	1	1484.3232	18	26717.8176
B03-42T1-36S	9		Tee Weld Joint	FCAW	6		1F	1	1484.3232	18	26717.8176
B03-42T1-37P	9		Tee Weld Joint	FCAW	6		3F	1	1490.2648	18	26824.7664
B03-42T1-37S	9		Tee Weld Joint	FCAW	6		1F	1	1490.2648	18	26824.7664
B03-42T1-38P	9		Tee Weld Joint	FCAW	6		3F	1	1472.7896	18	26510.2128
B03-42T1-38S	9		Tee Weld Joint	FCAW	6		1F	1	1472.7896	18	26510.2128
B03-42T1-39P	9		Tee Weld Joint	FCAW	6		3F	1	1492.01	18	26856.18

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
	(mm)				Double Continues Weld	Slag Intermit Weld					
B03-44T3-1	L	100*100*8.0	Tee Weld Joint	FCAW		5	1F	1	5518	12.5	68975
B03-44T3-1	L	100*100*8.0	Tee Weld Joint	FCAW		5	1F	1	5518	12.5	68975
B03-44V1	L	150*90*10.0	Tee Weld Joint	FCAW		5	3F	1	5518	12.5	68975
B03-44V1	L	150*90*10.0	Tee Weld Joint	FCAW		5	3F	1	5518	12.5	68975
B03-44X1-1	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	1949.0145	12.5	24362.68125
B03-45T1-1P		10	Butt weld joint	FCAW	5		2G	6	3001.0428	242.1566239	121120.3988
			Tee Weld Joint	FCAW	5		1F	1	8067.8694	12.5	100848.3675
B03-45T1-1S		10	Butt weld joint	FCAW	5		2G	6	3001.0428	242.1566239	121120.3988
			Tee Weld Joint	FCAW	5		1F	1	8067.8694	12.5	100848.3675
B03-45T1-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	3412.813	12.5	42660.1625
B03-45T1-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	3412.813	12.5	42660.1625
B03-45T2-1P		10	Tee Weld Joint	FCAW	5		1F	1	5350.01	12.5	66875.125
B03-45T2-1S		10	Tee Weld Joint	FCAW	5		1F	1	5350.01	12.5	66875.125
B03-45T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	4229.087	12.5	52863.5875
B03-45T2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	4229.087	12.5	52863.5875
B03-45T2-22S		9	Tee Weld Joint	FCAW	5		2F	1	1000	12.5	12500
B03-45T3-1P		10	Tee Weld Joint	FCAW	5		3F	1	6033.751	12.5	75421.8875
B03-45T3-1S		10	Tee Weld Joint	FCAW	5		3F	1	6033.751	12.5	75421.8875
B03-45T3-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	4542.1934	12.5	56777.4175
B03-45T3-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	4542.1934	12.5	56777.4175
B03-45T4-1P		9	Tee Weld Joint	FCAW	5		1F	1	8335.2	12.5	104190
B03-45T4-1S		9	Tee Weld Joint	FCAW	5		1F	1	8335.2	12.5	104190
B03-45T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7071.3958	12.5	88392.4475
B03-45T4-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	7071.3958	12.5	88392.4475
B03-45T7-1P		10	Tee Weld Joint	FCAW	5		3F	1	10449.4864	12.5	130618.58
B03-45T7-1S		10	Tee Weld Joint	FCAW	5		3F	1	10449.4864	12.5	130618.58
B03-45T7-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6919.4436	12.5	86493.045
B03-45T7-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6919.4436	12.5	86493.045
B03-45T8-1P		10	Tee Weld Joint	FCAW	5		3F	1	5187.6844	12.5	64846.055
B03-45T8-1S		10	Tee Weld Joint	FCAW	5		3F	1	5187.6844	12.5	64846.055
B03-45T8-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	3320.7296	12.5	41509.12
B03-45T8-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	3320.7296	12.5	41509.12
B03-45T9-1P		10	Tee Weld Joint	FCAW	5		3F	1	4162	12.5	52025
B03-45T9-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3662	12.5	45775
B03-45T9-22P		9	Tee Weld Joint	FCAW	5		2F	1	1000	12.5	12500
B03-46T2-1P		10	Tee Weld Joint	FCAW	5		3F	1	8396.3688	12.5	104954.61
B03-46T2-1S		10	Tee Weld Joint	FCAW	5		3F	1	8396.3688	12.5	104954.61
B03-46T2-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	4519.4328	12.5	56492.91
B03-46T2-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	4519.4328	12.5	56492.91
B03-46T1-1P		10	Tee Weld Joint	FCAW	5		3F	1	6495.3896	12.5	81192.37
B03-46T1-1S		10	Tee Weld Joint	FCAW	5		3F	1	6495.3896	12.5	81192.37
B03-46T1-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	4667.924	12.5	58349.05
B03-46T1-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	4667.924	12.5	58349.05
B03-46T3-1	L	100*100*8.0	Tee Weld Joint	FCAW		6.5	1F	1	2275.65	21.125	48073.10625
B03-46T3-1	L	100*100*8.0	Tee Weld Joint	FCAW		6.5	2F	1	2275.65	21.125	48073.10625
B03-46V1	L	150*90*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2104.6955	21.125	44461.69244
B03-46V1	L	150*90*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2104.6955	21.125	44461.69244
B03-47T10-1P		10	Tee Weld Joint	FCAW	5		3F	1	15217.56	12.5	190219.5
B03-47T10-1S		10	Tee Weld Joint	FCAW	5		3F	1	15217.56	12.5	190219.5
B03-47T10-21	FB	100*10.0	Tee Weld Joint	FCAW	5		2F	1	2132	12.5	26650
B03-47T10-21	FB	100*10.0	Tee Weld Joint	FCAW	5		2F	1	2132	12.5	26650
B03-47T10-22	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2643.5	21.125	55843.9375
B03-47T10-22	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2643.5	21.125	55843.9375
B03-47T11-1P		9	Tee Weld Joint	FCAW	5		1F	1	3973.49	12.5	49668.625
B03-47T11-1S		9	Tee Weld Joint	FCAW	5		1F	1	3973.49	12.5	49668.625
B03-47T11-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2491.0192	12.5	31137.74
B03-47T11-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2491.0192	12.5	31137.74
B03-47T1-1P	O	10	Tee Weld Joint	FCAW	5		1F	1	5370	12.5	67125
B03-47T1-1S	O	10	Tee Weld Joint	FCAW	5		1F	1	5370	12.5	67125
B03-47T1-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	4238	12.5	52975
B03-47T1-21	FB	100*12.0	Tee Weld Joint	FCAW	5		2F	1	4238	12.5	52975
B03-47T12-1P		9	Tee Weld Joint	FCAW	5		2F	1	1000	12.5	12500
B03-47T12-1S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-47T13-1P		9	Tee Weld Joint	FCAW	5		2F	1	1000	12.5	12500
B03-47T13-1S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-47T14-1C		9	Tee Weld Joint	FCAW	5		3F	1	1106.74	12.5	13834.25
B03-47T15-0	FB	100*10.0	Tee Weld Joint	FCAW	5		2F	1	1562	12.5	19525
B03-47T16-0	FB	100*10.0	Tee Weld Joint	FCAW	5		2F	1	3896	12.5	48700
B03-47T2-1P		9	Tee Weld Joint	FCAW	5		1F	1	3413.91	12.5	42673.875
B03-47T2-1S		9	Tee Weld Joint	FCAW	5		1F	1	3413.91	12.5	42673.875
B03-47T2-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2080.18	12.5	26002.25
B03-47T2-21	FB	75*10.0	Tee Weld Joint	FCAW	5		2F	1	2080.18	12.5	26002.25
B03-47T3-1P		10	Tee Weld Joint	FCAW	5		3F	1	11093.2638	12.5	138665.7975
B03-47T3-1S		10	Tee Weld Joint	FCAW	5		3F	1	11093.2638	12.5	138665.7975
B03-47T3-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	7022.0708	12.5	87775.885
B03-47T3-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	7022.0708	12.5	87775.885
B03-47T4-1P		10	Tee Weld Joint	FCAW	5		3F	1	9957.0998	12.5	124463.7475
B03-47T4-1S		10	Tee Weld Joint	FCAW	5		3F	1	9957.0998	12.5	124463.7475
B03-47T4-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	4454.937	12.5	55686.7125
B03-47T4-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	4454.937	12.5	55686.7125
B03-47T4-2P		10	Tee Weld Joint	FCAW	5		2F	1	1446	12.5	18075
B03-47T4-2S		10	Tee Weld Joint	FCAW	5		2F	1	1446	12.5	18075
B03-47T5-1P		10	Tee Weld Joint	FCAW	5		2F	1	6293.99	12.5	78674.875
B03-47T5-1S		10	Tee Weld Joint	FCAW	5		2F	1	6293.99	12.5	78674.875
B03-47T5-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	4756.6242	12.5	59457.8025
B03-47T5-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	4756.6242	12.5	59457.8025
B03-47T7-1P		10	Tee Weld Joint	FCAW	5		3F	1	3845.98	12.5	48074.75
B03-47T7-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3346	12.5	41825
B03-47T7-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-47T9-0	FB	100*10.0	Tee Weld Joint	FCAW	5		2F	1	1678.01	12.5	20975.125
B03-48T1-1P		10	Tee Weld Joint	FCAW	5		3F	1	7472.1686	12.5	93402.1075
B03-48T1-1S		10	Tee Weld Joint	FCAW	5		3F	1	7472.1686	12.5	93402.1075
B03-48T1-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	3052.74	12.5	38159.25
B03-48T1-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	3052.74	12.5	38159.25
B03-48T2-1P		10	Tee Weld Joint	FCAW	5		3F	1	6452.9146	12.5	80661.4325
B03-48T2-1S		10	Tee Weld Joint	FCAW	5		3F	1	6452.9146	12.5	80661.4325

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermit Weld					
B03-48T2-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	4890	12.5	61125
B03-48T2-21	FB	150*12.0	Tee Weld Joint	FCAW	5		2F	1	4890	12.5	61125
B03-48T3-1P		10	Tee Weld Joint	FCAW	5		2F	1	4543.75	12.5	56796.875
B03-48T3-1S		10	Tee Weld Joint	FCAW	5		2F	1	4543.75	12.5	56796.875
B03-48T3-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	1980	12.5	24750
B03-48T3-21	FB	75*8.0	Tee Weld Joint	FCAW	5		2F	1	1980	12.5	24750
B03-48T4-1	L	100*100*8.0	Lapped Weld Joint	SMAW	5		2F	1	858.0625	12.5	10725.78125
B03-48T4-1	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	961.7322	12.5	12021.6525
B03-48T4-1	L	100*100*8.0	Lapped Weld Joint	SMAW		5.5	2F	1	429.03125	15.125	6489.097656
B03-48T4-1	L	100*100*8.0	Tee Weld Joint	FCAW		5.5	3F	1	480.8661	15.125	7273.099763
B03-48V1	L	150*90*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2264.8131	21.125	47844.17674
B03-48V1	L	150*90*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2264.8131	21.125	47844.17674
B03-49T1-21	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2220.97	21.125	46917.99125
B03-49T1-21	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	1424.025	21.125	30082.52813
B03-49T1-22	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	1978.71	21.125	41800.24875
B03-49T1-22	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	1326.495	21.125	28022.20688
B03-49T1-23	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	1694.615	21.125	35798.74188
B03-49T1-23	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	1216.065	21.125	25689.37313
B03-49T1-24	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	953.015	21.125	20132.44188
B03-49T1-24	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	955.615	21.125	20187.36688
B03-49T1-25	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	464.165	21.125	9805.485625
B03-49T1-25	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	805.09	21.125	17007.52625
B03-49T1-26P		9	Lapped Weld Joint	SMAW	5		3F	1	480.005	12.5	6000.0625
B03-49T1-26P		9	Tee Weld Joint	FCAW	5		2F	1	1160.04	12.5	14500.5
B03-49T1-26P		9	Lapped Weld Joint	SMAW	5		3F	1	480.005	12.5	6000.0625
B03-49T1-26P		9	Tee Weld Joint	FCAW	5		2F	1	1160.04	12.5	14500.5
B03-49T1-26P		9	Lapped Weld Joint	SMAW	5		3F	1	480.005	12.5	6000.0625
B03-49T1-26P		9	Tee Weld Joint	FCAW	5		2F	1	1160.04	12.5	14500.5
B03-49T1-26P		9	Lapped Weld Joint	SMAW	5		3F	1	480.005	12.5	6000.0625
B03-49T1-26P		9	Tee Weld Joint	FCAW	5		2F	1	1160.04	12.5	14500.5
B03-49T1-26S		9	Lapped Weld Joint	SMAW	5		3F	1	480.005	12.5	6000.0625
B03-49T1-26S		9	Tee Weld Joint	FCAW	5		2F	1	1160.04	12.5	14500.5
B03-49T1-26S		9	Lapped Weld Joint	SMAW	5		3F	1	480.005	12.5	6000.0625
B03-49T1-26S		9	Tee Weld Joint	FCAW	5		2F	1	1160.04	12.5	14500.5
B03-49T1-26S		9	Lapped Weld Joint	SMAW	5		3F	1	480.005	12.5	6000.0625
B03-49T1-26S		9	Tee Weld Joint	FCAW	5		2F	1	1160.04	12.5	14500.5
B03-49T1-26S		9	Lapped Weld Joint	SMAW	5		3F	1	480.005	12.5	6000.0625
B03-49T1-26S		9	Tee Weld Joint	FCAW	5		2F	1	1160.04	12.5	14500.5
B03-49T1-26S		9	Lapped Weld Joint	SMAW	5		3F	1	480.005	12.5	6000.0625
B03-49T1-26S		9	Tee Weld Joint	FCAW	5		2F	1	1160.04	12.5	14500.5
B03-49T1-27S		9	Lapped Weld Joint	SMAW	5		3F	1	480.005	12.5	6000.0625
B03-49T1-27S		9	Tee Weld Joint	FCAW	5		2F	1	1160.04	12.5	14500.5
B03-49T2-21	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2750.585	21.125	58106.10813
B03-49T2-21	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2750.575	21.125	58105.89688
B03-49T2-21	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2750.575	21.125	58105.89688
B03-49T2-21	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2750.585	21.125	58106.10813
B03-49T2-21	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2750.575	21.125	58105.89688
B03-49T2-21	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2750.575	21.125	58105.89688
B03-49T2-22	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2750.59	21.125	58106.21375
B03-49T2-22	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2967.097	21.125	62679.92413
B03-49T2-23	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	3092.995	21.125	65339.51938
B03-49T2-23	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	1974.12	21.125	41703.285
B03-49T2-24P		9	Tee Weld Joint	FCAW	5		3F	1	1113.9996	12.5	13924.995
B03-49T2-24P		9	Lapped Weld Joint	SMAW	5		1F	1	534.701	12.5	6683.7625
B03-49T2-24P		9	Tee Weld Joint	FCAW	5		3F	1	1113.9996	12.5	13924.995
B03-49T2-24P		9	Lapped Weld Joint	SMAW	5		1F	1	534.701	12.5	6683.7625
B03-49T2-24P		9	Tee Weld Joint	FCAW	5		3F	1	1113.9996	12.5	13924.995
B03-49T2-24P		9	Lapped Weld Joint	SMAW	5		1F	1	534.701	12.5	6683.7625
B03-49T2-24S		9	Tee Weld Joint	FCAW	5		3F	1	1113.9996	12.5	13924.995
B03-49T2-24S		9	Lapped Weld Joint	SMAW	5		1F	1	534.701	12.5	6683.7625
B03-49T2-24S		9	Tee Weld Joint	FCAW	5		3F	1	1113.9996	12.5	13924.995
B03-49T2-24S		9	Lapped Weld Joint	SMAW	5		1F	1	534.701	12.5	6683.7625
B03-49T2-24S		9	Tee Weld Joint	FCAW	5		3F	1	1113.9996	12.5	13924.995
B03-49T2-24S		9	Lapped Weld Joint	SMAW	5		1F	1	534.701	12.5	6683.7625
B03-49T2-25	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2181.74	21.125	46089.2575
B03-49T2-25	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2181.74	21.125	46089.2575
B03-49T2-25	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2181.74	21.125	46089.2575
B03-49T2-25	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2181.74	21.125	46089.2575
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW	5		3F	1	500	12.5	6250
B03-49T2-26P		9	Lapped Weld Joint	SMAW	5		1F	1	479.98	12.5	5999.75
B03-49T2-26P		9	Tee Weld Joint	FCAW							

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las	Luas Permukaan (mm ²)	Volume (mm ³)
	(mm)				Double Continues Weld	Slag Intermit Weld			(mm)		
B03-50T1-1P		10	Tee Weld Joint	FCAW	5		3F	1	3171.4198	12.5	39642.7475
B03-50T1-1S		10	Tee Weld Joint	FCAW	5		3F	1	3171.4198	12.5	39642.7475
B03-50T1-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	955.2546	12.5	11940.6825
B03-50T1-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	955.2546	12.5	11940.6825
B03-50T2-1P		10	Tee Weld Joint	FCAW	6.5		3F	1	2959.6066	21.125	62521.68942
B03-50T2-1S		10	Tee Weld Joint	FCAW	6.5		3F	1	2959.6066	21.125	62521.68942
B03-50T3-1P		10	Tee Weld Joint	FCAW	6.5		3F	1	2871.9318	21.125	60669.55928
B03-50T3-1S		10	Tee Weld Joint	FCAW	6.5		3F	1	2871.9318	21.125	60669.55928
B03-50T4-1P		10	Tee Weld Joint	FCAW	6.5		3F	1	3015.6752	21.125	63706.1386
B03-50T4-1S		10	Tee Weld Joint	FCAW	6.5		3F	1	3015.6752	21.125	63706.1386
B03-50T5-1P		10	Tee Weld Joint	FCAW	6.5		3F	1	2701.5474	21.125	57070.18883
B03-50T5-1S		10	Tee Weld Joint	FCAW	6.5		3F	1	2701.5474	21.125	57070.18883
B03-50T5-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	1238.5458	12.5	15481.8225
B03-50T5-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	1238.5458	12.5	15481.8225
B03-50T6-1P		9	Tee Weld Joint	FCAW	5		3F	1	3791.8774	12.5	47398.4675
B03-50T6-1S		9	Tee Weld Joint	FCAW	5		3F	1	3791.8774	12.5	47398.4675
B03-50T7	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	1242.885	12.5	15536.0625
B03-50T7	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	1242.885	12.5	15536.0625
B03-50T8	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	1944.0575	12.5	24300.71875
B03-50T9			Tee Weld Joint	FCAW		5	2F	1	1389.005	12.5	17362.5625
B03-50V1	L	150*90*10.0	Tee Weld Joint	FCAW		5	3F	1	2560.8341	12.5	32010.42625
B03-50V1	L	150*90*10.0	Tee Weld Joint	FCAW		5	3F	1	2560.8341	12.5	32010.42625
B03-50X1	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	956.9528	12.5	11961.91
B03-50X1	L	100*100*8.0	Tee Weld Joint	FCAW		5	3F	1	956.9528	12.5	11961.91
B03-51T1-1P		10	Tee Weld Joint	FCAW	5		3F	1	4947.99	12.5	61849.875
			Butt weld joint	FCAW	5		1G	3	2311.7019	242.1566239	186597.9759
B03-51T1-1S		10	Tee Weld Joint	FCAW	5		3F	1	4947.99	12.5	61849.875
			Butt weld joint	FCAW	5		1G	3	2311.7019	242.1566239	186597.9759
B03-51T1-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3267.9078	12.5	40848.8475
B03-51T1-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3267.9078	12.5	40848.8475
B03-51T2-1P		10	Tee Weld Joint	FCAW	5		3F	1	10249.8932	12.5	128123.665
B03-51T2-1S		10	Tee Weld Joint	FCAW	5		3F	1	10249.8932	12.5	128123.665
B03-51T2-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	3742.167	12.5	46777.0875
B03-51T2-21	FB	150*12.0	Tee Weld Joint	FCAW	5		3F	1	3742.167	12.5	46777.0875
B03-51T3-1P		9	Tee Weld Joint	FCAW	5		3F	1	8673	12.5	108412.5
B03-51T3-1S		9	Tee Weld Joint	FCAW	5		3F	1	8673	12.5	108412.5
B03-51T3-21	FB	75*10.0	Tee Weld Joint	FCAW	5		3F	1	7386.5138	12.5	92331.4225
B03-51T3-21	FB	75*10.0	Tee Weld Joint	FCAW	5		3F	1	7386.5138	12.5	92331.4225
B03-51T5-1P		10	Tee Weld Joint	FCAW	5		3F	1	10827.1816	12.5	135339.77
B03-51T5-1S		10	Tee Weld Joint	FCAW	5		3F	1	10827.1816	12.5	135339.77
B03-51T5-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6844.1792	12.5	85552.24
B03-51T5-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6844.1792	12.5	85552.24
B03-52T1-21	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	3756	21.125	79345.5
B03-52T1-21	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	3756	21.125	79345.5
B03-52T1-22	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	3756	21.125	79345.5
B03-52T1-22	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	3756	21.125	79345.5
B03-52T1-23	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	3756	21.125	79345.5
B03-52T1-23	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	3756	21.125	79345.5
B03-52T1-24	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2690.005	21.125	56826.35563
B03-52T1-24	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2690.005	21.125	56826.35563
B03-52T1-25	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2217.005	21.125	46834.23063
B03-52T1-25	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	2217.005	21.125	46834.23063
B03-52T1-26	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	1638.005	21.125	34602.85563
B03-52T1-26	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	1638.005	21.125	34602.85563
B03-52T1-27	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	1027.1428	21.125	21698.39165
B03-52T1-27	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	1027.1428	21.125	21698.39165
B03-52T1-28	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	983.425	21.125	20774.85313
B03-52T1-28	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	983.425	21.125	20774.85313
B03-52T1-29	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	983.425	21.125	20774.85313
B03-52T1-29	L	100*100*10.0	Tee Weld Joint	FCAW		6.5	3F	1	983.425	21.125	20774.85313
B03-52T1-30S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-53T1-1P		10	Tee Weld Joint	FCAW	5		3F	1	2710.67	12.5	33883.375
B03-53T1-1S		10	Tee Weld Joint	FCAW	5		3F	1	2710.67	12.5	33883.375
B03-53T1-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	820	12.5	10250
B03-53T1-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	820	12.5	10250
B03-53T2-1P		10	Tee Weld Joint	FCAW	6.5		3F	1	2896.6892	21.125	61192.55935
B03-53T2-1S		10	Tee Weld Joint	FCAW	6.5		3F	1	2896.6892	21.125	61192.55935
B03-53T3-1P		10	Tee Weld Joint	FCAW	6.5		3F	1	2810.7008	21.125	59376.0544
B03-53T3-1S		10	Tee Weld Joint	FCAW	6.5		3F	1	2810.7008	21.125	59376.0544
B03-53T4-1P		10	Tee Weld Joint	FCAW	6.5		3F	1	2763.2306	21.125	58373.24643
B03-53T4-1S		10	Tee Weld Joint	FCAW	6.5		3F	1	2763.2306	21.125	58373.24643
B03-53T5-1P		10	Tee Weld Joint	FCAW	6.5		3F	1	2832.8746	21.125	59844.47593
B03-53T5-1S		10	Tee Weld Joint	FCAW	6.5		3F	1	2832.8746	21.125	59844.47593
B03-53T6-1P		10	Tee Weld Joint	FCAW	6.5		3F	1	3561.5686	21.125	75238.13668
B03-53T6-1S		10	Tee Weld Joint	FCAW	6.5		3F	1	3561.5686	21.125	75238.13668
B03-54C1-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C1-1S		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C2-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C2-1S		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C3-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C3-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C3-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C3-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C3-1S		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C3-1S		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C3-1S		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
	(mm)				Double Continues Weld	Slag Intermit Weld					
B03-54C3-1S		10	Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
			Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C4-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C4-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C5-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C5-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C6-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C6-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C7-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C7-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C8-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C8-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C9-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54C9-1P		10	Tee Weld Joint	FCAW	5		3F	1	440	12.5	5500
			Lapped Weld Joint	SMAW	5		1F	1	419.99	12.5	5249.875
B03-54T1-1P		10	Tee Weld Joint	FCAW	5		3F	1	2702.05	12.5	33775.625
B03-54T1-1S		10	Tee Weld Joint	FCAW	5		3F	1	2702.05	12.5	33775.625
B03-54T1-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	809.96	12.5	10124.5
B03-54T1-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	809.96	12.5	10124.5
B03-54T2-1P		10	Tee Weld Joint	FCAW	5		3F	1	3088.3302	12.5	38604.1275
B03-54T2-1S		10	Tee Weld Joint	FCAW	5		3F	1	3088.3302	12.5	38604.1275
B03-54T3-1P		10	Tee Weld Joint	FCAW	5		3F	1	2921.4374	12.5	36517.9675
B03-54T3-1S		10	Tee Weld Joint	FCAW	5		3F	1	2921.4374	12.5	36517.9675
B03-54T4-1P		10	Tee Weld Joint	FCAW	5		3F	1	2874.0816	12.5	35926.02
B03-54T4-1S		10	Tee Weld Joint	FCAW	5		3F	1	2874.0816	12.5	35926.02
					5				0	12.5	0
B03-54T5-1P		16	Tee Weld Joint	FCAW	10		3F	1	3762.985	50	188149.25
					5				0	12.5	0
B03-54T5-1S		16	Tee Weld Joint	FCAW	10		3F	1	3762.985	50	188149.25
B03-54T5-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1241.99	50	62099.5
B03-54T5-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1241.99	50	62099.5
B03-54T5-22P		10	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-54T6-1P		10	Tee Weld Joint	FCAW	5		3F	1	14074.2388	12.5	175927.985
B03-54T6-1S		10	Tee Weld Joint	FCAW	5		3F	1	14074.2388	12.5	175927.985
B03-54T6-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3949.3556	12.5	49366.945
B03-54T6-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	3949.3556	12.5	49366.945
B03-54T7-1C		10	Tee Weld Joint	FCAW	5		3F	1	6093.96	12.5	76174.5
B03-54T7-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	5600.4	12.5	70005
B03-54T7-22P		10	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-54T8-1P		16	Butt Weld Joint	FCAW	5		3G	6	3299.73	12.5	6874.4375
			Tee Weld Joint	FCAW	5		2F	1	2396.043	448.6505983	1074986.125
B03-54T8-1S		16	Butt Weld Joint	FCAW	10		3G	6	3299.73	50	27497.75
			Tee Weld Joint	FCAW	10		2F	1	2396.043	448.6505983	1074986.125
B03-54T8-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1393.94	50	69697
B03-54T8-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1393.94	50	69697
B03-5DL1-1P		9	Tee Weld Joint	FCAW	6		3F	1	3912.988	18	70433.784
B03-5DL1-21	FB	100*10.0	Tee Weld Joint	FCAW	6		3F	1	3170.5096	18	57069.1728
B03-5DL1-22P		9	Tee Weld Joint	FCAW	6.5		3F	1	1000	21.125	21125
B03-ACP10-1P		10	Tee Weld Joint	FCAW	5		3F	1	508.5488	12.5	6356.86
B03-ACP10-1S		10	Tee Weld Joint	FCAW	5		3F	1	508.5488	12.5	6356.86
B03-ACP11-1P		10	Tee Weld Joint	FCAW	5		3F	1	844.8738	12.5	10560.9225
B03-ACP11-1S		10	Tee Weld Joint	FCAW	5		3F	1	844.8738	12.5	10560.9225
B03-ACP11-21	PIPE	216*12.7	Tee Weld Joint	FCAW	5		3F	1	478.6488	0	0
B03-ACP11-21	PIPE	216*12.7	Tee Weld Joint	FCAW	5		3F	1	478.6488	0	0
B03-ACP12-1S		10	Tee Weld Joint	FCAW	5		3F	1	1486.2964	12.5	18578.705
B03-ACP13-1P		10	Tee Weld Joint	FCAW	5		3F	1	844.8738	12.5	10560.9225
B03-ACP14-1C		10	Tee Weld Joint	FCAW	5		3F	1	1111.272	12.5	13890.9
B03-ACP14-1P		10	Tee Weld Joint	FCAW	5		3F	1	1111.272	12.5	13890.9
B03-ACP15-1C		10	Tee Weld Joint	FCAW	5		3F	1	897.4616	12.5	11218.27
B03-ACP15-1P		10	Tee Weld Joint	FCAW	5		3F	1	897.4616	12.5	11218.27
B03-ACP3-1P		20	Tee Weld Joint	FCAW	12.5		3F	1	6514.8988	78.125	508976.4688
B03-ACP3-1S		20	Tee Weld Joint	FCAW	12.5		3F	1	6514.8988	78.125	508976.4688
B03-ACP4-1P		20	Tee Weld Joint	FCAW	12.5		3F	1	7602.62	78.125	593954.6875
B03-ACP4-1S		20	Tee Weld Joint	FCAW	12.5		3F	1	7602.62	78.125	593954.6875
B03-ACP5-1P		10	Tee Weld Joint	FCAW	5		3F	1	2665.5676	12.5	33319.595
B03-ACP5-1S		10	Tee Weld Joint	FCAW	5		3F	1	2665.5676	12.5	33319.595
B03-ACP5-21	FB	75*10.0	Tee Weld Joint	FCAW	5		3F	1	2564.5	12.5	32056.25
B03-ACP5-21	FB	75*10.0	Tee Weld Joint	FCAW	5		3F	1	2564.5	12.5	32056.25
B03-ACP6-1P		10	Tee Weld Joint	FCAW	5		3F	1	1489.5714	12.5	18619.6425
B03-ACP7-1S		10	Tee Weld Joint	FCAW	5		3F	1	1489.5714	12.5	18619.6425
B03-ACPB1-1P		10	Tee Weld Joint	FCAW	5		3F	1	991.2168	12.5	12390.21
B03-ACPB1-1S		10	Tee Weld Joint	FCAW	5		3F	1	991.2168	12.5	12390.21
B03-ACPB2-1P		10	Tee Weld Joint	FCAW	5		3F	1	1658.5624	12.5	20732.03
B03-ACPB2-1S		10	Tee Weld Joint	FCAW	5		3F	1	1658.5624	12.5	20732.03
B03-ACPB3-1P		10	Tee Weld Joint	FCAW	5		3F	1	814.85738	12.5	10185.71725
B03-ACPB3-1S		10	Tee Weld Joint	FCAW	5		3F	1	814.85738	12.5	10185.71725
B03-BB1-1P		9	Lapped Weld Joint	SMAW	5		3F	1	522.4805	12.5	6531.00625
			Tee Weld Joint	FCAW	5		2F	1	1250.329	12.5	15629.1125
B03-BB1-1S		9	Lapped Weld Joint	SMAW	5		3F	1	522.4805	12.5	6531.00625
			Tee Weld Joint	FCAW	5		2F	1	1250.329	12.5	15629.1125
B03-BCF1-1P		9	Tee Weld Joint	FCAW	5		3F	1	1551.7456	12.5	19396.82
B03-BCF1-1S		9	Tee Weld Joint	FCAW	5		3F	1	1551.7456	12.5	19396.82
B03-BH1-1P		10	Tee Weld Joint	FCAW	5		3F	1	3983.261	12.5	49790.7625
B03-BH1-1S		10	Tee Weld Joint	FCAW	5		3F	1	3983.261	12.5	49790.7625

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las	Luas Permukaan (mm ²)	Volume (mm ³)
	(mm)				Double Continues Weld	Slag Intermit Weld			(mm)		
B03-BH1-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	2296.5312	12.5	28706.64
B03-BH1-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	2296.5312	12.5	28706.64
B03-BH2-1P		10	Tee Weld Joint	FCAW	5		3F	1	1909.7178	12.5	23871.4725
B03-BH2-1S		10	Tee Weld Joint	FCAW	5		3F	1	1909.7178	12.5	23871.4725
B03-BH3-1P		10	Tee Weld Joint	FCAW	5		3F	1	11940.3552	12.5	149254.44
B03-BH3-1S		10	Tee Weld Joint	FCAW	5		3F	1	11940.3552	12.5	149254.44
B03-BH3-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	8299.332	12.5	103741.65
B03-BH3-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	8299.332	12.5	103741.65
B03-BKT1-1C		9	Tee Weld Joint	FCAW	5		3F	1	1130.932	12.5	14136.65
B03-BSG1-1P		9	Tee Weld Joint	FCAW	5		3F	1	1380	12.5	17250
B03-BSG1-1S		9	Tee Weld Joint	FCAW	5		3F	1	1380	12.5	17250
B03-CB5-1P		9	Lapped Weld Joint	SMAW	5		3F	1	439.99	12.5	5499.875
B03-CB5-1P		9	Tee Weld Joint	FCAW	5		2F	1	715.19	12.5	8939.875
B03-CB5-1S		9	Lapped Weld Joint	SMAW	5		3F	1	439.99	12.5	5499.875
B03-CB5-1S		9	Tee Weld Joint	FCAW	5		2F	1	715.19	12.5	8939.875
B03-CF1-1P		10	Tee Weld Joint	FCAW	5		3F	1	8999.4276	12.5	112492.845
B03-CF1-1S		10	Tee Weld Joint	FCAW	5		3F	1	8999.4276	12.5	112492.845
B03-CF1-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6657.9612	12.5	83224.515
B03-CF1-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	6657.9612	12.5	83224.515
B03-CF1-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF1-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF1A-1P		10	Tee Weld Joint	FCAW	5		3F	1	12105.901	12.5	151323.7625
B03-CF1A-1S		10	Tee Weld Joint	FCAW	5		3F	1	12105.901	12.5	151323.7625
B03-CF1A-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	10034.9064	50	501745.32
B03-CF1A-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	10034.9064	50	501745.32
B03-CF1A-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF1A-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF1B-1P		10	Tee Weld Joint	FCAW	5		3F	1	3862.0472	12.5	48275.59
B03-CF1B-1S		10	Tee Weld Joint	FCAW	5		3F	1	3862.0472	12.5	48275.59
B03-CF1C-1P		10	Tee Weld Joint	FCAW	5		3F	1	2327.3208	12.5	29091.51
B03-CF1C-1S		10	Tee Weld Joint	FCAW	5		3F	1	2327.3208	12.5	29091.51
B03-CF1C-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	9237.8428	50	461892.14
B03-CF1C-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	9237.8428	50	461892.14
B03-CF2-1P		10	Butt Weld Joint	FCAW	5		3G	3	905.805	242.1566239	73115.56025
B03-CF2-1P		10	Tee Weld Joint	FCAW	5		2F	1	3803.736	12.5	47546.7
B03-CF2-1S		10	Butt Weld Joint	FCAW	5		3G	3	905.805	242.1566239	73115.56025
B03-CF2-1S		10	Tee Weld Joint	FCAW	5		2F	1	3803.736	12.5	47546.7
B03-CF2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	2008.403	12.5	25105.0375
B03-CF2-21	FB	100*12.0	Tee Weld Joint	FCAW	5		3F	1	2008.403	12.5	25105.0375
B03-CF2A-1P		10	Tee Weld Joint	FCAW	5		3F	1	12105.901	12.5	151323.7625
B03-CF2A-1S		10	Tee Weld Joint	FCAW	5		3F	1	12105.901	12.5	151323.7625
B03-CF2A-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	10034.9064	50	501745.32
B03-CF2A-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	10034.9064	50	501745.32
B03-CF2A-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF2A-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF2B-1P		10	Tee Weld Joint	FCAW	5		3F	1	3862.0472	12.5	48275.59
B03-CF2B-1S		10	Tee Weld Joint	FCAW	5		3F	1	3862.0472	12.5	48275.59
B03-CF2C-1P		10	Tee Weld Joint	FCAW	5		3F	1	2327.3208	12.5	29091.51
B03-CF2C-1S		10	Tee Weld Joint	FCAW	5		3F	1	2327.3208	12.5	29091.51
B03-CF2C-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	9237.8428	50	461892.14
B03-CF2C-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	9237.8428	50	461892.14
B03-CF3-1P		10	Tee Weld Joint	FCAW	5		3F	1	8999.4276	12.5	112492.845
B03-CF3-1S		10	Tee Weld Joint	FCAW	5		3F	1	8999.4276	12.5	112492.845
B03-CF3-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	6657.9612	28.125	187255.1588
B03-CF3-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	6657.9612	28.125	187255.1588
B03-CF3-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF3-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF3A-1P		10	Tee Weld Joint	FCAW	5		3F	1	12105.901	12.5	151323.7625
B03-CF3A-1S		10	Tee Weld Joint	FCAW	5		3F	1	12105.901	12.5	151323.7625
B03-CF3A-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	10034.9064	50	501745.32
B03-CF3A-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	10034.9064	50	501745.32
B03-CF3A-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF3A-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF3B-1P		10	Tee Weld Joint	FCAW	5		3F	1	3862.0472	12.5	48275.59
B03-CF3B-1S		10	Tee Weld Joint	FCAW	5		3F	1	3862.0472	12.5	48275.59
B03-CF3C-1P		10	Tee Weld Joint	FCAW	5		3F	1	2327.3208	12.5	29091.51
B03-CF3C-1S		10	Tee Weld Joint	FCAW	5		3F	1	2327.3208	12.5	29091.51
B03-CF3C-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	9237.8428	50	461892.14
B03-CF4-1P		10	Tee Weld Joint	FCAW	10		3F	1	8014.495	50	406182.745
B03-CF4-1S		10	Tee Weld Joint	FCAW	10		3F	1	8014.495	50	406182.745
B03-CF4-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	4411.479	28.125	124072.8469
B03-CF4-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	4411.479	28.125	124072.8469
B03-CF4-22	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	614.55	28.125	17284.21875
B03-CF4-22	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	614.55	28.125	17284.21875
B03-CF4-23P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF4-23S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF4A-1P		10	Tee Weld Joint	FCAW	5		3F	1	9656.8662	12.5	120710.8275
B03-CF4A-1S		10	Tee Weld Joint	FCAW	5		3F	1	9656.8662	12.5	120710.8275
B03-CF4A-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	4126.2402	50	206312.01
B03-CF4A-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	4126.2402	50	206312.01
B03-CF4A-22	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	3347.2874	50	167364.37
B03-CF4A-22	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	3347.2874	50	167364.37
B03-CF4A-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF4A-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF5-1P		10	Tee Weld Joint	FCAW	5		3F	1	7367.2794	12.5	92090.9925
B03-CF5-1S		10	Tee Weld Joint	FCAW	5		3F	1	7367.2794	12.5	92090.9925
B03-CF5-21		10	Tee Weld Joint	FCAW	10		2F	1	4949.317	50	247465.85
B03-CF5-21		10	Tee Weld Joint	FCAW	10		2F	1	4949.317	50	247465.85
B03-CF5-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF5-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF5A-1P		10	Tee Weld Joint	FCAW	5		3F	1	3962.3836	12.5	49529.795
B03-CF5A-1S		10	Tee Weld Joint	FCAW	5		3F	1	3962.3836	12.5	49529.795
B03-CF5A-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2768.1666	50	138408.33
B03-CF5A-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2768.1666	50	138408.33
B03-CF5A-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500

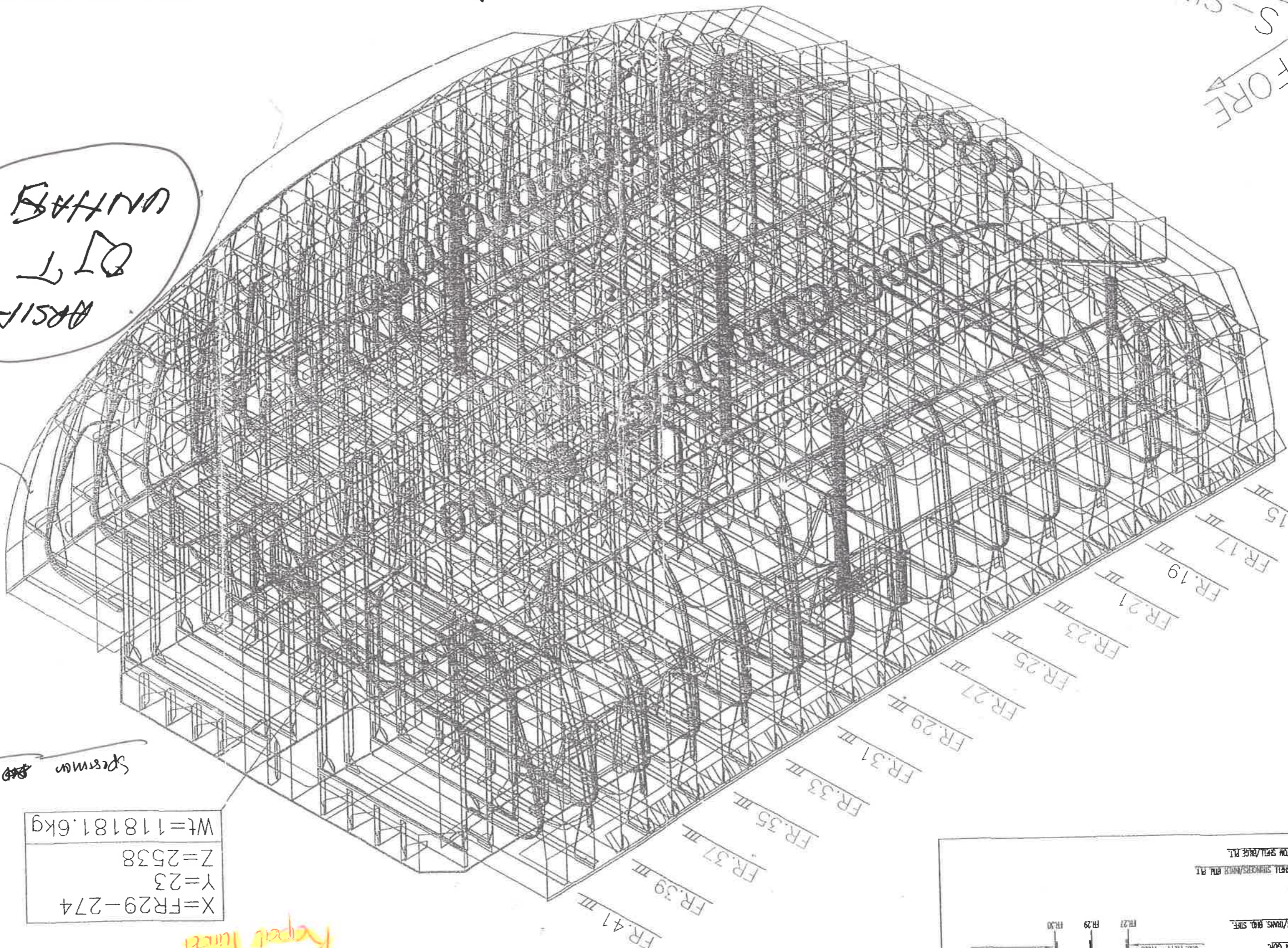
Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermit Weld					
B03-CF5A-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF5B-1P		10	Tee Weld Joint	FCAW	5		3F	1	2411.6098	12.5	30145.1225
B03-CF5B-1S		10	Tee Weld Joint	FCAW	5		3F	1	2411.6098	12.5	30145.1225
B03-CF5B-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1096.2188	50	54810.94
B03-CF5B-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1096.2188	50	54810.94
B03-CF6-1P		10	Tee Weld Joint	FCAW	5		3F	1	6315.1984	12.5	78939.98
B03-CF6-1S		10	Tee Weld Joint	FCAW	5		3F	1	6315.1984	12.5	78939.98
B03-CF6-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	3828.6046	28.125	107679.5044
B03-CF6-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	3828.6046	28.125	107679.5044
B03-CF6-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF6-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF6A-1P		10	Tee Weld Joint	FCAW	5		3F	1	3818.47	12.5	47730.875
B03-CF6A-1S		10	Tee Weld Joint	FCAW	5		3F	1	3818.47	12.5	47730.875
B03-CF6A-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	1657.0002	28.125	46603.13063
B03-CF6A-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	1657.0002	28.125	46603.13063
B03-CF6A-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF6A-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF6B-1P		10	Tee Weld Joint	FCAW	5		3F	1	2517.628	12.5	31470.35
B03-CF6B-1S		10	Tee Weld Joint	FCAW	5		3F	1	2517.628	12.5	31470.35
B03-CF6B-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	1134.5562	28.125	31909.39313
B03-CF6B-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	1134.5562	28.125	31909.39313
B03-CF6B-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CF6B-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CFDBL1-1P		10	Tee Weld Joint	FCAW	5		3F	1	1487.6232	12.5	18595.29
B03-CFDBL1-1S		10	Tee Weld Joint	FCAW	5		3F	1	1487.6232	12.5	18595.29
B03-CHL10-1P		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL10-1S		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL11-1P		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL11-1S		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL1-1P		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL1-1S		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL3-1P		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL3-1S		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL4-1P		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL4-1S		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL5-1P		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL5-1S		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL6-1P		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL6-1S		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL7-1P		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL7-1S		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL8-1P		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL8-1S		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL9-1P		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHL9-1S		8	Tee Weld Joint	FCAW	5		3F	1	261.0032	12.5	3262.54
B03-CHLK2A-1P		10	Tee Weld Joint	FCAW	5		3F	1	3921.7918	12.5	49022.3975
B03-CHLK2A-1S		10	Tee Weld Joint	FCAW	5		3F	1	3921.7918	12.5	49022.3975
B03-CHLK2B-1P		10	Tee Weld Joint	FCAW	5		3F	1	2137.6272	12.5	26720.34
B03-CHLK2B-1S		10	Tee Weld Joint	FCAW	5		3F	1	2137.6272	12.5	26720.34
B03-CHLK2C-1P		10	Tee Weld Joint	FCAW	5		3F	1	10394.9348	12.5	129936.685
B03-CHLK2C-1S		10	Tee Weld Joint	FCAW	5		3F	1	10394.9348	12.5	129936.685
B03-CHLK2C-21	FB	150*12.0	Tee Weld Joint	FCAW	7.5		3F	1	7985.5092	28.125	224592.4463
B03-CHLK2C-21	FB	150*12.0	Tee Weld Joint	FCAW	7.5		3F	1	7985.5092	28.125	224592.4463
B03-CHLK2C-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CHLK2C-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CHLK2D-1P		10	Tee Weld Joint	FCAW	5		3F	1	2149.98	12.5	26874.75
B03-CHLK2D-1S		10	Tee Weld Joint	FCAW	5		3F	1	2149.98	12.5	26874.75
B03-CHLK2D-21	FB	150*12.0	Tee Weld Joint	FCAW	7.5		3F	1	7562.01	28.125	212681.5313
B03-CHLK2D-21	FB	150*12.0	Tee Weld Joint	FCAW	7.5		3F	1	7562.01	28.125	212681.5313
B03-CHLK2D-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CHLK2D-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CHLK2D-23P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CHLK2D-23P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CHLK2D-23P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CHLK2D-23S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CHLK2D-23S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CHLK2E-1P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CHLK2E-1S		9	Tee Weld Joint	FCAW	5		3F	1	2370.9	12.5	29636.25
B03-CHLK2E-21	FB	100*9.0	Tee Weld Joint	FCAW	5		3F	1	2370.9	12.5	29636.25
B03-CHLK2E-21		100*9.0	Tee Weld Joint	FCAW	5		3F	1	718.53	12.5	8981.625
B03-CHLK2E-21		100*9.0	Tee Weld Joint	FCAW	5		3F	1	718.53	12.5	8981.625
B03-CR10-1C		10	Tee Weld Joint	FCAW	5		3F	1	4482	12.5	56025
B03-CR10-21	FB	150*12.0	Tee Weld Joint	FCAW	7.5		3F	1	3166	28.125	89043.75
B03-CR10-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CR10-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CR1-1C		10	Tee Weld Joint	FCAW	5		3F	1	11885.4784	12.5	148568.48
B03-CR1-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	11027.0006	28.125	310134.3919
B03-CR12-1C		9	Tee Weld Joint	FCAW	5		3F	1	1616.47	12.5	20205.875
B03-CR1-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CR1-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CR1-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CR1-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CR3-1C		10	Tee Weld Joint	FCAW	5		3F	1	28462.2708	12.5	355778.385
B03-CR3-21			Butt Weld Joint	FCAW	5		1G	6	11087.25	242.1566239	447475.1715
B03-CR3-22	L	100*100*10.0	Tee Weld Joint	FCAW		5	2F	1	3820.47	12.5	47755.875
B03-CR3-23	L	100*100*10.0	Tee Weld Joint	FCAW		5	3F	1	3501.075	12.5	43763.4375
B03-CR3-24	L	100*100*10.0	Tee Weld Joint	FCAW		5	3F	1	2637.045	12.5	32963.0625
B03-CR5-1C		10	Tee Weld Joint	FCAW	5		3F	1	2155.845	12.5	26948.0625
B03-CR5-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	6065.2986	12.5	75816.2325
B03-CR6-1C		10	Tee Weld Joint	FCAW	5		3F	1	3571.0602	50	178553.01
B03-CR6-21			Tee Weld Joint	FCAW	5		3F	1	18680.1184	12.5	233501.48
B03-CR6-22S			Tee Weld Joint	FCAW	5		2F	1	4191.99	12.5	52399.875
B03-CR6-22S			Tee Weld Joint	FCAW	5		2F	1	1000	12.5	12500
B03-CR6-24P		9	Lapped Weld Joint	SMAW	5		3F	1	860	12.5	10750
B03-CR6-24P		9	Lapped Weld Joint	SMAW	5		3F	1	860	12.5	10750

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermit Weld					
B03-CR6-25S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CR6-27S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CR6-27S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CR7-1C		10	Tee Weld Joint	FCAW	5		3F	1	5195.682	12.5	64946.025
B03-CR7-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	4633.2	28.125	130308.75
B03-CR7-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CR7-23P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-CRB1-1P		9	Lapped Weld Joint	SMAW	5		3F	1	540	12.5	6750
			Tee Weld Joint	FCAW	5		2F	1	600	12.5	7500
B03-DL1B1-1P		9	Tee Weld Joint	FCAW	5		3F	1	1585.3686	12.5	19817.1075
B03-DL1B1-1S		9	Tee Weld Joint	FCAW	5		3F	1	1585.3686	12.5	19817.1075
B03-DL3B1-1P		9	Tee Weld Joint	FCAW	5		3F	1	1585.3686	12.5	19817.1075
B03-DL3B1-1S		9	Tee Weld Joint	FCAW	5		3F	1	1585.3686	12.5	19817.1075
B03-DL4B-1	L	100*100*10.0	Tee Weld Joint	FCAW	5		3F	1	2146.68	12.5	26833.5
B03-DL4B-1	L	100*100*10.0	Tee Weld Joint	FCAW	5		3F	1	2146.68	12.5	26833.5
B03-DL6B1-1P		9	Tee Weld Joint	FCAW	5		3F	1	2146.68	12.5	26833.5
B03-DL6B1-1S		9	Tee Weld Joint	FCAW	5		3F	1	2146.68	12.5	26833.5
B03-DL7B1-1P		9	Tee Weld Joint	FCAW	5		3F	1	2146.68	12.5	26833.5
B03-DL7B1-1S		9	Tee Weld Joint	FCAW	5		3F	1	2146.68	12.5	26833.5
B03-DL8B1-1P		9	Tee Weld Joint	FCAW	5		3F	1	2146.68	12.5	26833.5
B03-DL8B1-1S		9	Tee Weld Joint	FCAW	5		3F	1	2146.68	12.5	26833.5
B03-DL9B1-1P		9	Tee Weld Joint	FCAW	5		3F	1	2146.68	12.5	26833.5
B03-DL9B1-1S		9	Tee Weld Joint	FCAW	5		3F	1	2146.68	12.5	26833.5
B03-E1-0	RBAR	50	Butt Weld Joint	FCAW	6.5		3G	3	45620.4879	242.1566239	3682434.444
B03-E1-0	RBAR	50	Butt Weld Joint	FCAW	6.5		3G	3	45620.4879	242.1566239	3682434.444
B03-SBG1-1P		10	Tee Weld Joint	FCAW	5		3F	1	8628.9604	12.5	107862.005
B03-SBG1-1S		10	Tee Weld Joint	FCAW	5		3F	1	8628.9604	12.5	107862.005
B03-SBG1-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	7638.4966	28.125	214832.7169
B03-SBG1-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	7638.4966	28.125	214832.7169
B03-SBG1-22P		9	Tee Weld Joint	FCAW	5		3F	1	1120.8	12.5	14010
B03-SBG1-22S		9	Tee Weld Joint	FCAW	5		3F	1	1120.8	12.5	14010
B03-SBG1-23P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-SBG1-23S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-SBG2-1P		10	Tee Weld Joint	FCAW	5		3F	1	4513.8744	12.5	56423.43
B03-SBG2-1S		10	Tee Weld Joint	FCAW	5		3F	1	4513.8744	12.5	56423.43
B03-SBG2-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	3231.556	28.125	90887.5125
B03-SBG2-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	3231.556	28.125	90887.5125
B03-SBG2-22P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-SBG2-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-SBG2-23P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-SBG2-23S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-SBG2-24P		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-SBG2-24S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-SBG3-1P		10	Tee Weld Joint	FCAW	5		3F	1	2971.1356	12.5	37139.195
B03-SBG3-1S		10	Tee Weld Joint	FCAW	5		3F	1	2971.1356	12.5	37139.195
B03-SBG3-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	1662.3846	28.125	46754.56688
B03-SBG3-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	1662.3846	28.125	46754.56688
B03-SBG3-22P		9	Tee Weld Joint	FCAW	5		3F	1	900	12.5	11250
B03-SBG3-22S		9	Tee Weld Joint	FCAW	5		3F	1	900	12.5	11250
B03-SBG4-1P		10	Tee Weld Joint	FCAW	5		3F	1	4495.035	12.5	56187.9375
B03-SBG4-1S		10	Tee Weld Joint	FCAW	5		3F	1	4495.035	12.5	56187.9375
B03-SBG4-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	2819.173	28.125	79289.24063
B03-SBG4-21	FB	100*12.0	Tee Weld Joint	FCAW	7.5		3F	1	2819.173	28.125	79289.24063
B03-SBG4-22P		10	Tee Weld Joint	FCAW	5		3F	1	800	12.5	10000
B03-SBG4-22S		10	Tee Weld Joint	FCAW	5		3F	1	800	12.5	10000
B03-SG2C-1P		10	Tee Weld Joint	FCAW	5		3F	1	2844	12.5	35550
B03-SG2C-1S		10	Tee Weld Joint	FCAW	5		3F	1	2844	12.5	35550
B03-SG2D-1P		10	Tee Weld Joint	FCAW	5		3F	1	2844	12.5	35550
B03-SG2D-1S		10	Tee Weld Joint	FCAW	5		3F	1	2844	12.5	35550
B03-SGB1-1P		9	Tee Weld Joint	FCAW	5		3F	1	12032.8794	12.5	150410.9925
B03-SGB1-1S		9	Tee Weld Joint	FCAW	5		3F	1	12032.8794	12.5	150410.9925
B03-TBC1-1P		10	Tee Weld Joint	FCAW	5		3F	1	2379.19	12.5	29739.875
B03-TBC1A-1S		10	Tee Weld Joint	FCAW	5		3F	1	2316.3502	12.5	28954.3775
B03-TBC3-1P		10	Tee Weld Joint	FCAW	5		3F	1	2379.19	12.5	29739.875
B03-TBC4-1S		10	Tee Weld Joint	FCAW	5		3F	1	2316.3502	12.5	28954.3775
B03-TBC5-1P		10	Tee Weld Joint	FCAW	5		3F	1	2379.19	12.5	29739.875
B03-TBC5A-1S		10	Tee Weld Joint	FCAW	5		3F	1	2316.3502	12.5	28954.3775
B03-TBF1-1P		9	Tee Weld Joint	FCAW	5		3F	1	4120.46	12.5	51505.75
B03-TBF1-1S		9	Tee Weld Joint	FCAW	5		3F	1	4120.46	12.5	51505.75
B03-TBF2-1P		9	Tee Weld Joint	FCAW	5		3F	1	4120.46	12.5	51505.75
B03-TBF2-1S		9	Tee Weld Joint	FCAW	5		3F	1	4120.46	12.5	51505.75
B03-TBF3-1P		9	Tee Weld Joint	FCAW	5		3F	1	4120.46	12.5	51505.75
B03-TBF3-1S		9	Tee Weld Joint	FCAW	5		3F	1	4120.46	12.5	51505.75
B03-TBF4-1P		9	Tee Weld Joint	FCAW	5		3F	1	4120.46	12.5	51505.75
B03-TBF4-1S		9	Tee Weld Joint	FCAW	5		3F	1	4120.46	12.5	51505.75
B03-TWDK1-1C		9	Butt Weld Joint	FCAW	5		3G	3	29167.8	242.1566239	2354391.992
			Tee Weld Joint	FCAW	5		2F	1	37605.4812	12.5	470068.515
B03-TWDK1-1C			Butt Weld Joint	FCAW	5		1G	6	58335.6	242.1566239	2354391.992
			Tee Weld Joint	FCAW	5		2F	1	37605.4812	12.5	470068.515
B03-TWDK1-23	L	100*100*8.0	Lapped Weld Joint	SMAW	5		3F	1	599.839	12.5	7497.9875
			Tee Weld Joint	FCAW	5		2F	1	600	12.5	7500
B03-TWDK1-23	L	100*100*8.0	Lapped Weld Joint	SMAW	5		3F	1	599.839	12.5	7497.9875
			Tee Weld Joint	FCAW	5		2F	1	600	12.5	7500
B03-TWDK1-24	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	8520.01	12.5	106500.125
B03-TWDK1-24	L	100*100*8.0	Tee Weld Joint	FCAW	5		3F	1	8520.01	12.5	106500.125
B03-TWDK1-25	FB	100*9.0	Tee Weld Joint	FCAW	5		3F	1	5350	12.5	66875
B03-TWDK1-25	FB	100*9.0	Tee Weld Joint	FCAW	5		3F	1	5350	12.5	66875
B03-TWDK1-26	FB	100*9.0	Tee Weld Joint	FCAW	5		3F	1	7740	12.5	96750
B03-TWDK1-26	FB	100*9.0	Tee Weld Joint	FCAW	5		3F	1	7740	12.5	96750
B03-TWDK1-27P		9	Tee Weld Joint	FCAW	5		3F	1	6740	12.5	84250
B03-TWDK1-27S		9	Tee Weld Joint	FCAW	5		3F	1	6740	12.5	84250
B03-TWDK1-28P		9	Tee Weld Joint	FCAW	5		3F	1	1248.02	12.5	15600.25
B03-TWDK1-28S		9	Tee Weld Joint	FCAW	5		3F	1	1248.02	12.5	15600.25
B03-TWDK1-29P		9	Tee Weld Joint	FCAW	5		3F	1	1264.02	12.5	15800.25
B03-TWDK1-29S		9	Tee Weld Joint	FCAW	5		3F	1	1264.02	12.5	15800.25
B03-TWDK1-30P		9	Lapped Weld Joint	SMAW	5		3F	1	599.839	12.5	7497.9875

Part name	Ketebalan Plat		Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
		(mm)			Double Continues Weld	Slag Intermit Weld					
B03-TWDK1-30S		9	Tee Weld Joint	FCAW	5		2F	1	600	12.5	7500
			Lapped Weld Joint	SMAW	5		3F	1	599.839	12.5	7497.9875
			Tee Weld Joint	FCAW	5		2F	1	600	12.5	7500
B03-TWG10-1P		14	Tee Weld Joint	FCAW	9		3F	1	3024.56	40.5	122494.68
B03-TWG10-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2070.0502	50	103502.51
B03-TWG11-1P		14	Tee Weld Joint	FCAW	9		3F	1	3024.56	40.5	122494.68
B03-TWG11-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2070.0502	50	103502.51
B03-TWG1-1P		16	Tee Weld Joint	FCAW	10		3F	1	2365.4264	50	118271.32
B03-TWG1-1S		16	Tee Weld Joint	FCAW	10		3F	1	2365.4264	50	118271.32
B03-TWG1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1580.01	50	79000.5
B03-TWG1-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1580.01	50	79000.5
B03-TWG12-1P		14	Tee Weld Joint	FCAW	9		3F	1	3024.56	40.5	122494.68
B03-TWG12-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2070.0502	50	103502.51
B03-TWG13-1P		14	Tee Weld Joint	FCAW	9		3F	1	2873.87	40.5	116391.735
B03-TWG13-21			Tee Weld Joint	FCAW	9		2F	1	2003.9412	40.5	81159.6186
B03-TWG14-1P		14	Tee Weld Joint	FCAW	9		3F	1	3024.56	40.5	122494.68
B03-TWG14-1S		14	Tee Weld Joint	FCAW	9		3F	1	3024.56	40.5	122494.68
B03-TWG14-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2003.9412	50	100197.06
B03-TWG15-1S		16	Tee Weld Joint	FCAW	10		3F	1	2871.5514	50	143577.57
B03-TWG15-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1486.4	50	74320
B03-TWG16-1S		16	Tee Weld Joint	FCAW	10		3F	1	1525.44	50	76272
B03-TWG16-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	418	50	20900
B03-TWG17-1S		14	Tee Weld Joint	FCAW	9		3F	1	2871.5514	40.5	116297.8317
B03-TWG17-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1486.4	50	74320
B03-TWG18-1S		14	Tee Weld Joint	FCAW	9		3F	1	1525.44	40.5	61780.32
B03-TWG18-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	418	50	20900
B03-TWG19-1P		14	Tee Weld Joint	FCAW	9		3F	1	2687.17	40.5	108830.385
B03-TWG19-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	994	50	49700
B03-TWG20-1P		14	Tee Weld Joint	FCAW	9		3F	1	2562.068	40.5	103763.754
B03-TWG21-1P		14	Tee Weld Joint	FCAW	9		3F	1	3711.74	40.5	150325.47
B03-TWG21-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2566.1094	50	128305.47
B03-TWG2-1P		16	Tee Weld Joint	FCAW	10		3F	1	621.88	50	31094
			Tee Weld Joint	FCAW	10		2F	1	1939.32	50	96966
B03-TWG2-1S		16	Tee Weld Joint	FCAW	10		3F	1	621.88	50	31094
			Tee Weld Joint	FCAW	10		2F	1	1939.32	50	96966
B03-TWG2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2083.7756	50	104188.78
B03-TWG2-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2083.7756	50	104188.78
B03-TWG23-1S		14	Tee Weld Joint	FCAW	9		3F	1	2603.2542	40.5	105431.7951
B03-TWG23-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1075.2972	50	53764.86
B03-TWG24-1S		14	Tee Weld Joint	FCAW	9		3F	1	1318.01	40.5	53379.405
B03-TWG25-1S		14	Tee Weld Joint	FCAW	9		3F	1	1743.19	40.5	70599.195
B03-TWG25-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	417.99	50	20899.5
B03-TWG26-1P		14	Tee Weld Joint	FCAW	9		3F	1	4191.3182	40.5	169748.3871
B03-TWG26-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2790.031	50	139501.55
B03-TWG27-1S		14	Tee Weld Joint	FCAW	9		3F	1	2603.2542	40.5	105431.7951
B03-TWG27-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	1075.2972	50	53764.86
B03-TWG28-1S		14	Tee Weld Joint	FCAW	9		3F	1	1743.19	40.5	70599.195
B03-TWG28-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	417.99	50	20899.5
B03-TWG29-1S		10	Tee Weld Joint	FCAW	5		3F	1	1924.352	12.5	24054.4
B03-TWG29-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	966.8028	50	48340.14
B03-TWG29-22S		9	Tee Weld Joint	FCAW	5		3F	1	1000	12.5	12500
B03-TWG3-1P		16	Butt Weld Joint	FCAW	10		3G	7	8964.2	448.6505983	574541.9562
B03-TWG3-1S		16	Butt Weld Joint	FCAW	10		3G	7	8964.2	448.6505983	574541.9562
B03-TWG4-1S		14	Tee Weld Joint	FCAW	9		3F	1	2873.87	40.5	116391.735
B03-TWG4-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2003.9412	50	100197.06
B03-TWG5-1S		14	Tee Weld Joint	FCAW	9		3F	1	3024.56	40.5	122494.68
B03-TWG5-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2070.0502	50	103502.51
B03-TWG6-1S		14	Tee Weld Joint	FCAW	9		3F	1	3024.56	40.5	122494.68
B03-TWG6-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2070.0502	50	103502.51
B03-TWG7-1S		14	Tee Weld Joint	FCAW	9		3F	1	3024.56	40.5	122494.68
B03-TWG7-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2070.0502	50	103502.51
B03-TWG8-1S		14	Tee Weld Joint	FCAW	9		3F	1	3024.56	40.5	122494.68
B03-TWG8-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2070.0502	50	103502.51
B03-TWG9-1S		14	Tee Weld Joint	FCAW	9		3F	1	3024.56	40.5	122494.68
B03-TWG9-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	2070.0502	50	103502.51
B03-TWG10-1P		9	Tee Weld Joint	FCAW	5		3F	1	2017.8052	12.5	25222.565
B03-TWG11-1P		10	Tee Weld Joint	FCAW	5		3F	1	1134.02	12.5	14175.25
B03-TWG11-1P		10	Tee Weld Joint	FCAW	5		3F	1	2146.201	12.5	26827.5125
B03-TWG12-1P		14	Tee Weld Joint	FCAW	9		3F	1	1218	40.5	49329
B03-TWG12-21	FB	150*16.0	Tee Weld Joint	FCAW	10		3F	1	236	50	11800
B03-TWG13-1P		9	Tee Weld Joint	FCAW	5		3F	1	1696.24	12.5	21203
B03-TWG13-1S		9	Tee Weld Joint	FCAW	5		3F	1	1696.24	12.5	21203
B03-TWG13-21		9	Tee Weld Joint	FCAW	5		3F	1	1698.74	12.5	21234.25
B03-TWG13-21		9	Tee Weld Joint	FCAW	5		3F	1	1698.74	12.5	21234.25
B03-TWG14-1P		9	Tee Weld Joint	FCAW	5		3F	1	1698.74	12.5	21234.25
B03-TWG14-1P		9	Tee Weld Joint	FCAW	5		3F	1	1698.74	12.5	21234.25
B03-TWG15-1S		9	Tee Weld Joint	FCAW	5		3F	1	1698.74	12.5	21234.25
B03-TWG15-1S		9	Tee Weld Joint	FCAW	5		3F	1	1698.74	12.5	21234.25
B03-TWG16-1P		10	Tee Weld Joint	FCAW	5		3F	1	1134.3516	12.5	14179.395
B03-TWG17-1P		9	Tee Weld Joint	FCAW	5		3F	1	1698.74	12.5	21234.25
B03-TWG18-1P		9	Tee Weld Joint	FCAW	5		3F	1	1696.228	12.5	21202.85
B03-TWG18-1S		9	Tee Weld Joint	FCAW	5		3F	1	1696.228	12.5	21202.85
B03-TWG19-1P		9	Tee Weld Joint	FCAW	5		3F	1	1893.7456	12.5	23671.82
B03-TWG19-1S		9	Tee Weld Joint	FCAW	5		3F	1	1893.7456	12.5	23671.82
B03-TWG1-1P		16	Tee Weld Joint	FCAW	10		3F	1	3191.9	50	159595
B03-TWG2-1S		16	Tee Weld Joint	FCAW	10		3F	1	1521.9	50	76095
B03-TWG3-1S		16	Tee Weld Joint	FCAW	10		3F	1	691.88	50	34594
											0
											0
B03 A1-1P		10	Butt Weld Joint	FCAW	5		3G	3	43390.842	131.9333	1908232.325
B03 A1-1S		10	Butt Weld Joint	FCAW	5		3G	3	43390.842	131.9333	1908232.325
B03 A2-1P		12	Butt Weld Joint	FCAW	7.5		3G	4	21367.696	170.4105	910319.9398
B03 A2-1S		12	Butt Weld Joint	FCAW	7.5		3G	4	21367.696	170.4105	910319.9398
B03 ACP16-1P		16	Butt Weld Joint	FCAW	10		3G	7	24322.5717	268.5138	932992.3076
B03 ACP16-1S		16	Butt Weld Joint	FCAW	10		3G	7	24322.5717	268.5138	932992.3076
B03_ACP6-1P		20	Butt Weld Joint	FCAW	12.5		3G	7	23123.3338	438.4677	1448404.998
B03_ACP6-1S		20	Butt Weld Joint	FCAW	12.5		3G	7	23123.3338	438.4677	1448404.998

Part name	Ketebalan Plat (mm)	Jenis Sambungan	Jenis Pengelasan	Leg Length (mm)		Posisi Pengelasan	Jumlah Layer	Panjang Las (mm)	Luas Permukaan (mm ²)	Volume (mm ³)
				Double Continues Weld	Slag Intermit Weld					
B03 B1-1P	10	Butt Weld Joint	FCAW	5		3G	3	25158.3582	131.9333	1106408.407
B03 B1-1S	10	Butt Weld Joint	FCAW	5		3G	3	25158.3582	131.9333	1106408.407
B03 B2-1P	12	Butt Weld Joint	FCAW	7.5		3G	4	20938.6092	170.4105	892039.7158
B03 B2-1S	12	Butt Weld Joint	FCAW	7.5		3G	4	20938.6092	170.4105	892039.7158
B03 C1-1P	10	Butt Weld Joint	FCAW	5		3G	3	23183.7357	131.9333	1019568.919
B03 C1-1S	10	Butt Weld Joint	FCAW	5		3G	3	23183.7357	131.9333	1019568.919
B03 C2-1P	12	Butt Weld Joint	FCAW	7.5		3G	4	24035.07	170.4105	1023957.074
		Butt Weld Joint (Pipe)	FCAW (Pipe)	7.5		1G	8	35792.1952	170.4105	762420.735
B03 C2-1S	12	Butt Weld Joint	FCAW	7.5		3G	4	24035.07	170.4105	1023957.074
		Butt Weld Joint (Pipe)	FCAW (Pipe)	7.5		1G	8	35792.1952	170.4105	762420.735
B03 D1-1P	10	Butt Weld Joint	FCAW	5		3G	3	23495.0496	131.9333	1033259.809
B03 D1-1S	10	Butt Weld Joint	FCAW	5		3G	3	23495.0496	131.9333	1033259.809
B03 D2-1P	16	Tee Weld Joint	FCAW	10		3F	7	48073.4786	50	343381.99
B03 D2-1S	16	Tee Weld Joint	FCAW	10		3F	7	48073.4786	50	343381.99
B03 E1-1P	10	Butt Weld Joint	FCAW	5		3G	3	28926.3558	131.9333	1272116.526
B03 E1-1S	10	Butt Weld Joint	FCAW	5		3G	3	28926.3558	131.9333	1272116.526
B03 F1-1P	16	Tee Weld Joint	FCAW	10		3F	1	10823.4806	50	541174.03
		Butt Weld Joint	FCAW	10		1G	10	7153.458	268.5138	192080.2191
B03 F1-1S	16	Tee Weld Joint	FCAW	10		3F	1	10823.4806	50	541174.03
		Butt Weld Joint	FCAW	10		1G	10	7153.458	268.5138	192080.2191
B03 KE1-1C	14	Butt Weld Joint	FCAW	9		3G	5	33332.041	214.0501	1426945.342
B03 KE2-1C	14	Butt Weld Joint	FCAW	9		3G	5	20370.8055	214.0501	872074.5909
B03 KE3-1C	14	Butt Weld Joint	FCAW	9		3G	5	8368.773	214.0501	358267.3395
B03 KE4-1C	16	Butt Weld Joint	FCAW	10		3G	7	19235.0585	268.5138	737839.8073
B03 MDK1A-1C	9	Butt Weld Joint	FCAW	5		3G	3	11325	131.9333	498048.2075
B03 MDK1B-1C	16	Butt Weld Joint	FCAW	10		3G	7	44625	268.5138	1711775.475
B03 MDK1C-1C	20	Butt Weld Joint	FCAW	12.5		3G	7	70350	438.4677	4406600.385
B03 MDK1D-1C	9	Butt Weld Joint	FCAW	5		3G	3	5083.38	131.9333	232555.6995
		Tee Weld Joint	FCAW	5		2F	1	4818.6012	12.5	60232.515
B03 MDK2A-1P	9	Butt Weld Joint	FCAW	5		3G	3	23851.8582	131.9333	1048951.454
B03 MDK2B-1P	16	Butt Weld Joint	FCAW	10		3G	6	31050.78	268.5138	1389593.822
B03 MDK2B-1S	16	Butt Weld Joint	FCAW	10		3G	6	31050.78	268.5138	1389593.822
B03 MDK2C-1P	20	Butt Weld Joint	FCAW	12.5		3G	7	26775.91	438.4677	1677195.953
B03 MDK2C-1S	20	Butt Weld Joint	FCAW	12.5		3G	7	26775.91	438.4677	1677195.953
B03 MDK2D-1P	10	Tee Weld Joint	FCAW	5		3F	1	1059.195	12.5	13239.9375
		Butt Weld Joint	FCAW	5		1G	6	17259.18	131.9333	379510.0954
B03 MDK2D-1S	10	Tee Weld Joint	FCAW	5		3F	1	1059.195	12.5	13239.9375
		Butt Weld Joint	FCAW	5		1G	6	17259.18	131.9333	379510.0954
B03 MDK2E-1S	9	Butt Weld Joint	FCAW	5		3G	3	22650	131.9333	996096.415
B03 MDK2F-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	4061.443	28.125	114228.0844
B03 MDK2F-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	4061.443	28.125	114228.0844
B03 MDK3A-1P	9	Tee Weld Joint	FCAW	5		3F	1	11214.277	12.5	140178.4625
		Butt Weld Joint	FCAW	5		1G	6	21226.404	131.9333	466744.9211
B03 MDK3A-1S	9	Tee Weld Joint	FCAW	5		3F	1	11214.277	12.5	140178.4625
		Butt Weld Joint	FCAW	5		1G	6	21226.404	131.9333	466744.9211
B03 MDK3B-1P	10	Tee Weld Joint	FCAW	5		3F	1	5224.7798	12.5	65309.7475
B03 MDK3B-1S	10	Tee Weld Joint	FCAW	5		3F	1	5224.7798	12.5	65309.7475
B03-1DL1-1S	10	Tee Weld Joint	FCAW	5		3F	1	1013.661	12.5	12670.7625
B03-1DL2-1S	10	Tee Weld Joint	FCAW	5		3F	1	1013.661	12.5	12670.7625
B03-2DL1-1P	10	Tee Weld Joint	FCAW	5		3F	1	1580.2204	12.5	19752.755
B03-2DL2-1S	10	Tee Weld Joint	FCAW	5		3F	1	1286.8038	12.5	16085.0475
B03-2DL3-1S	10	Tee Weld Joint	FCAW	5		3F	1	946.9646	12.5	11837.0575
B03-2DL4-1S	10	Tee Weld Joint	FCAW	5		3F	1	1255.6464	12.5	15695.58
B03-2DL5-1S	10	Tee Weld Joint	FCAW	5		3F	1	1255.6464	12.5	15695.58
B03-2DLB1-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	1244.6844	28.125	35006.74875
B03-2DLB1-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	1244.6844	28.125	35006.74875
B03-2DLB2-1P	12	Tee Weld Joint	FCAW	7.5		3F	1	1244.6844	28.125	35006.74875
B03-2DLB2-1S	12	Tee Weld Joint	FCAW	7.5		3F	1	1244.6844	28.125	35006.74875
B03-2DLB3-1P	10	Tee Weld Joint	FCAW	5		3F	1	1051.4	12.5	13142.5
B03-3DL1-1P	10	Tee Weld Joint	FCAW	5		3F	1	1420.51	12.5	17756.375
B03-3DL2-1P	10	Tee Weld Joint	FCAW	5		3F	1	1437.564	12.5	17969.55
										0
										0
ERECTION	12	Butt Weld Joint	FCAW	8		3G	7	127681.98	170.4105	3108335.729
	12	Butt Weld Joint	FCAW	8		1G	6	33950.25	170.4105	964246.5129
	12	Butt Weld Joint	FCAW	8		2G	6	60910.0536	170.4105	1729952.115
	12	Butt Weld Joint	FCAW	8		2G	6	2970.5064	170.4105	84367.58015
	12	Butt Weld Joint	FCAW	8		2G	6	60910.0536	170.4105	1729952.115
	12	Butt Weld Joint	FCAW	8		2G	6	2970.5064	170.4105	84367.58015
										0
										0
	12	Butt Weld Joint	SMAW	8		1G	1	1000	170.4105	170410.5
	12	Butt Weld Joint	SMAW	8		4G	1	1000	170.4105	170410.5

ARCIP
 DT
 UNHAB

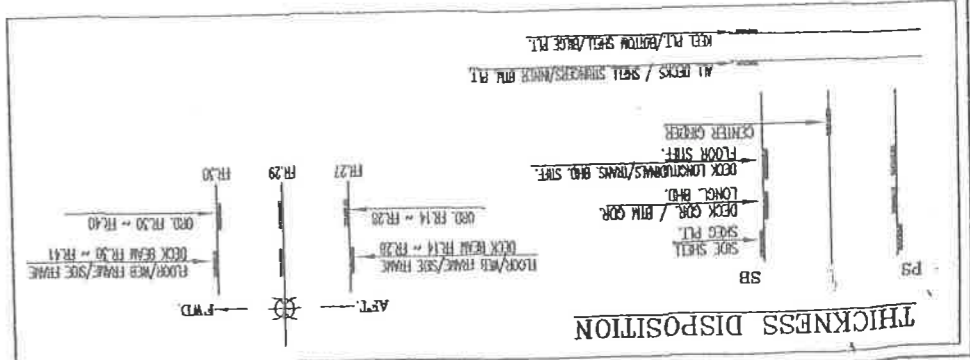


UPA
 FORE
 S-SIDE

Spesman NOT DT

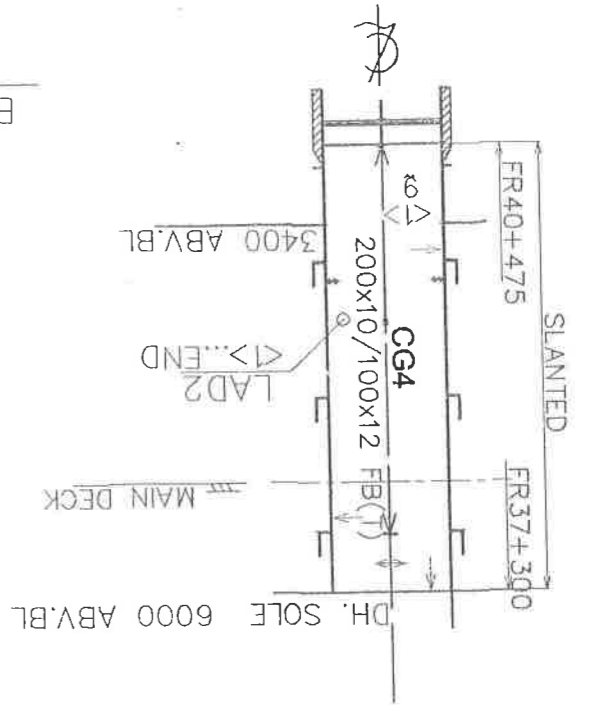
X=FR29-274
 Y=23
 Z=2538
 Wt=118181.6kg

Repeat Lucht



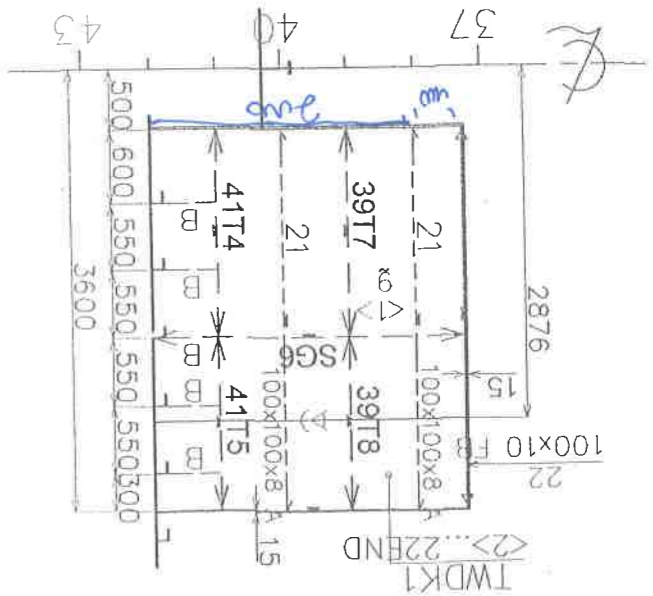
LIFTING INFORMATION

Kode block 002

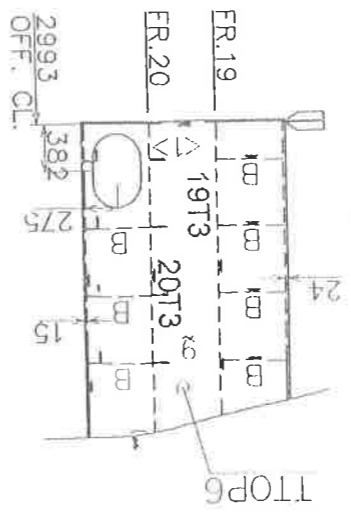


SECTION "X"

UP
 S. SIDE



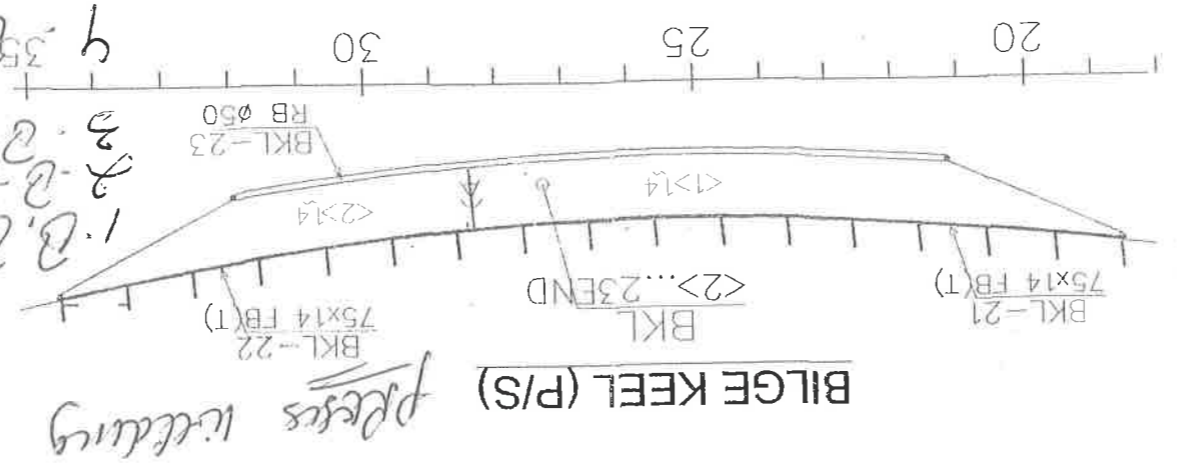
SECTION 3400 ABV.BL (UP-VIEW)



SECTION

1800 ABV. BL. (UP-VIEW) 2840 ABV. BL. (UP-VIEW)

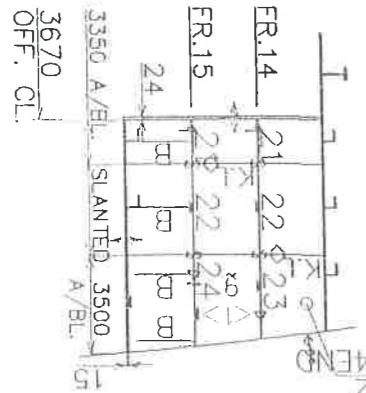
SECTION



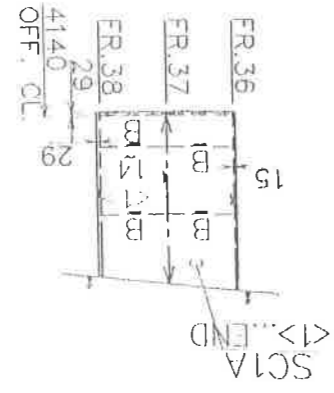
BILGE KEEL (P/S)

SEC. 315 OFF CL. (IN-VIEW)

UP
 FORE



SEC. 3500 ABV. BL. (UP-VIEW)



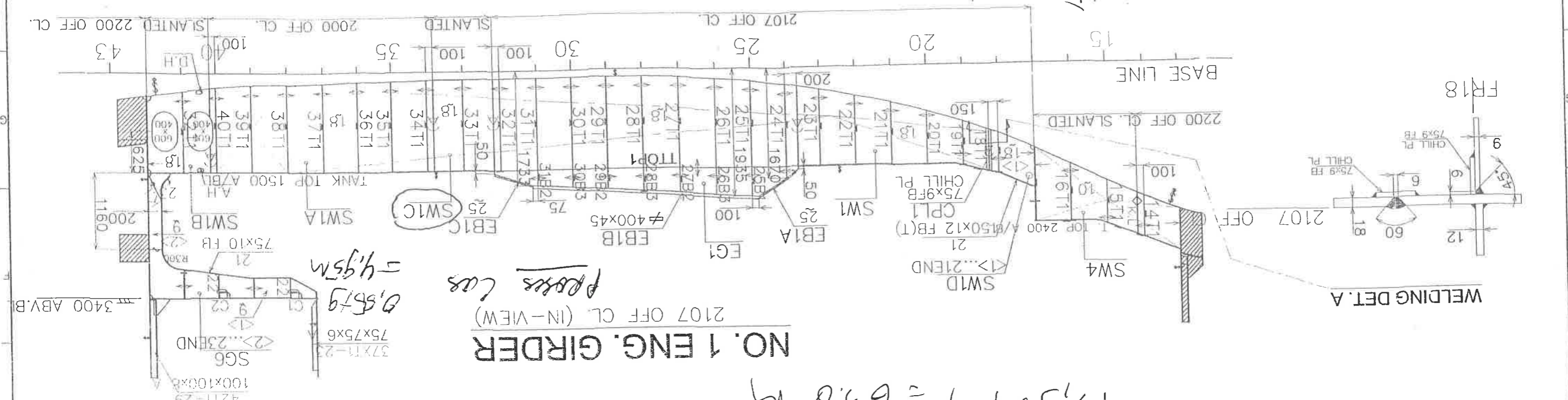
SEC. 2500 ABV. BL. (UP-VIEW)

550
 163
 3300
 550
 3300
 2800

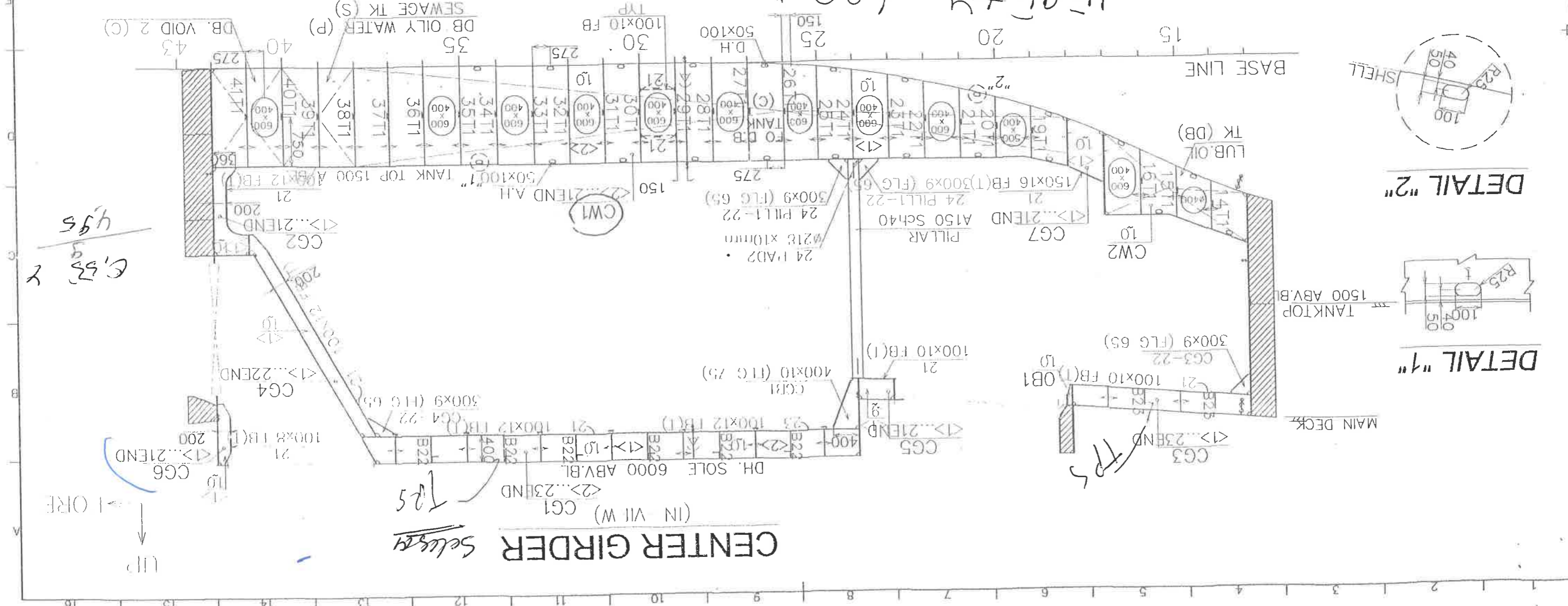
INSIDE
 OFF. CL.

5/16/3

15,95 + 4 = 63,8 m



15,95 + 4 = 63,8 m



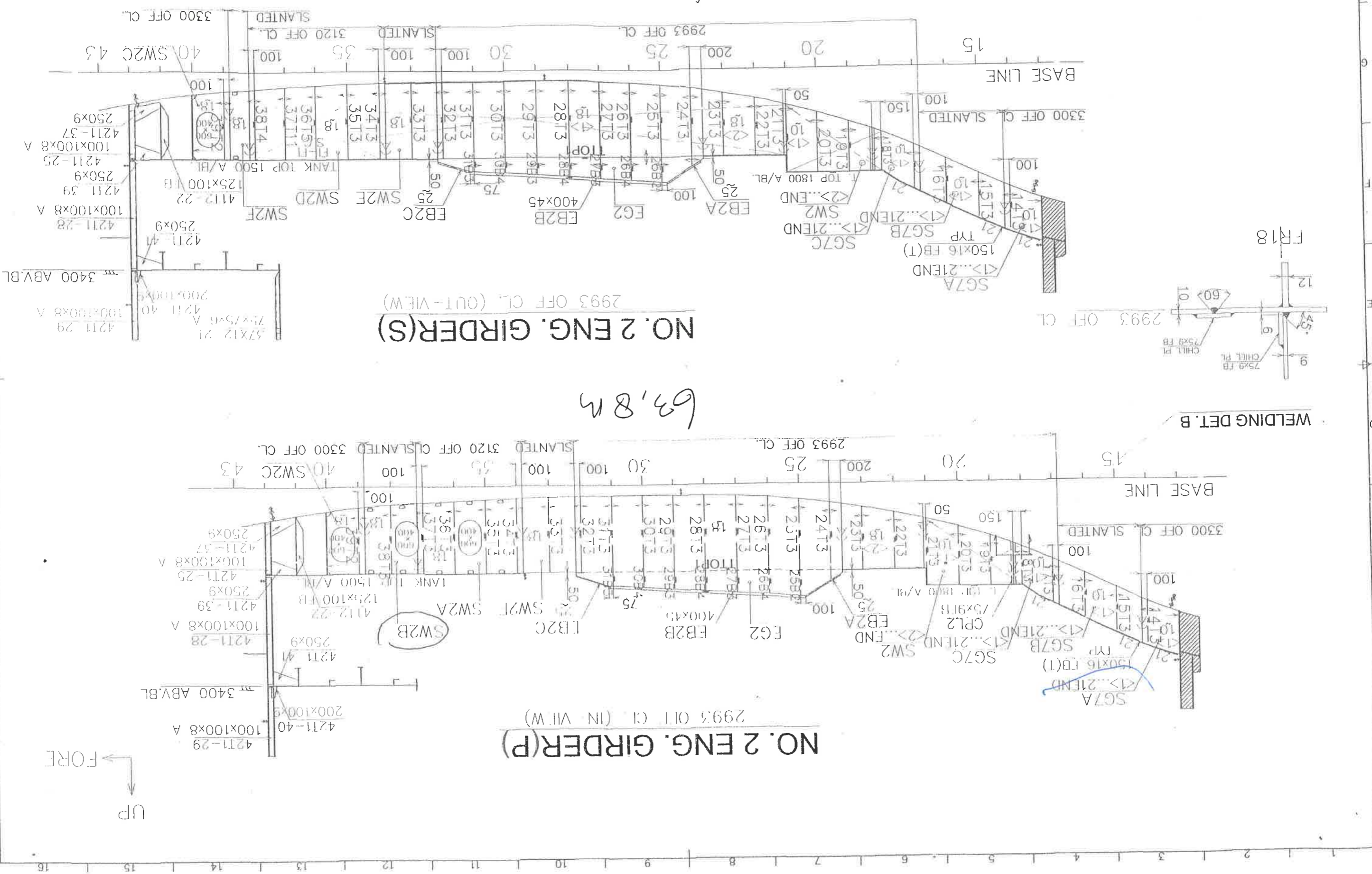
63,8M

63,8M

HULL NO.	159
DWG NO.	000 102.B02
SCALE	1:60
REVISION	012345
SHEET	9 OF 25

ASSEMBLY DRAWING B02

DWG. TITLE



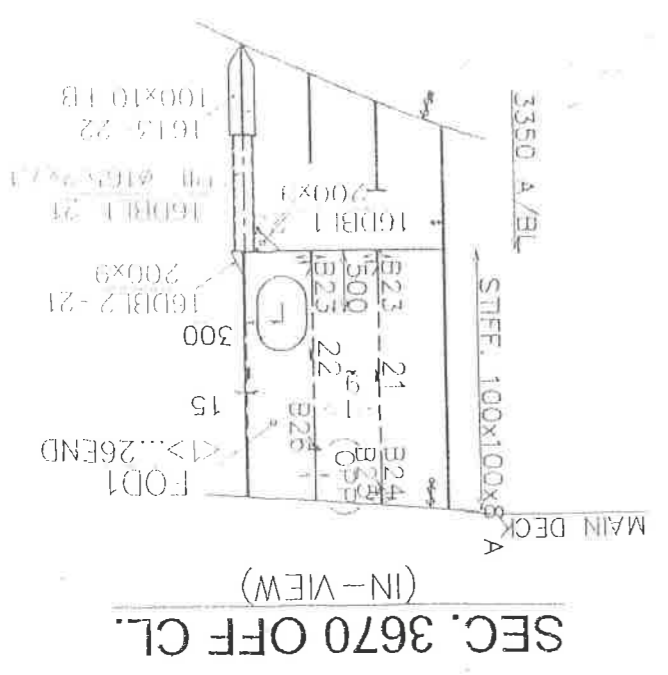
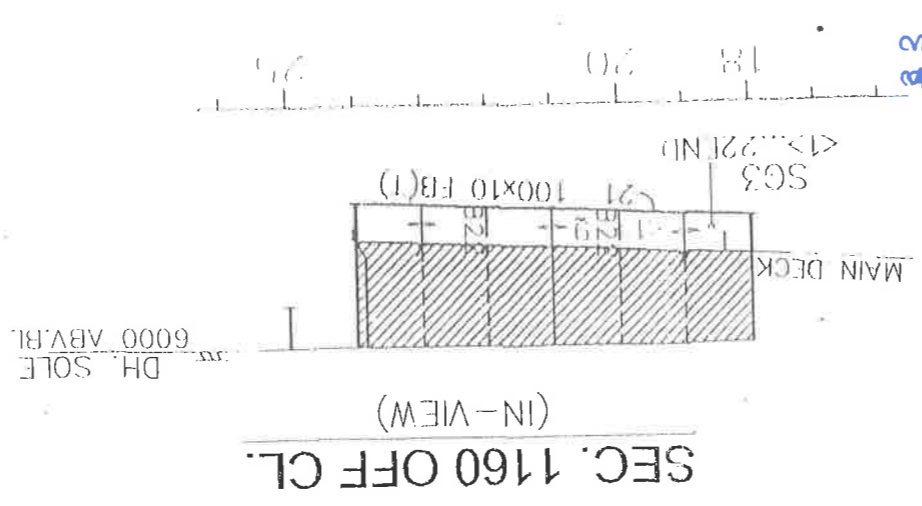
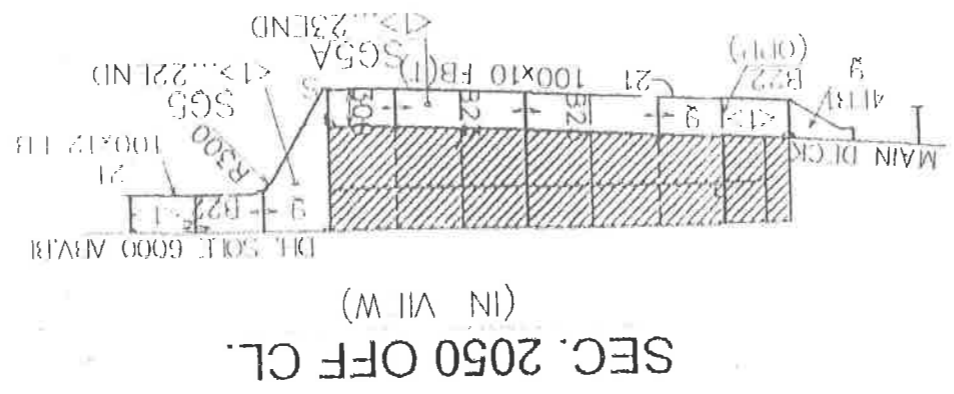
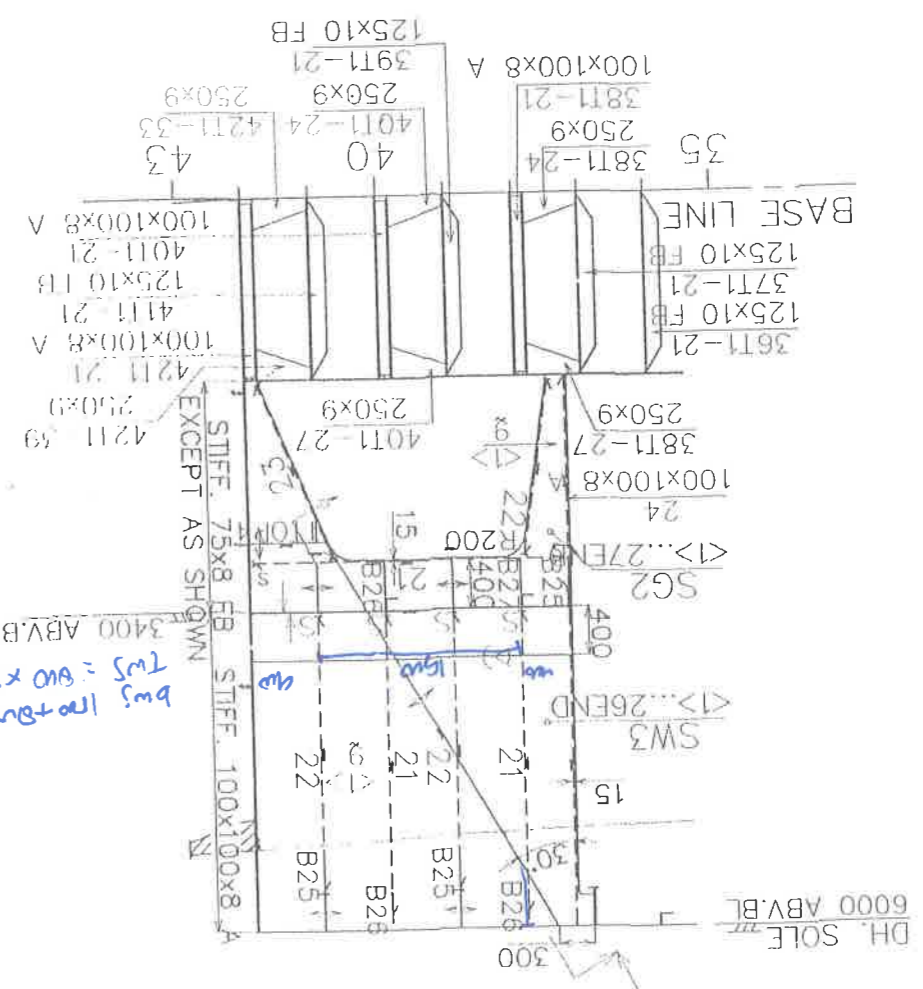
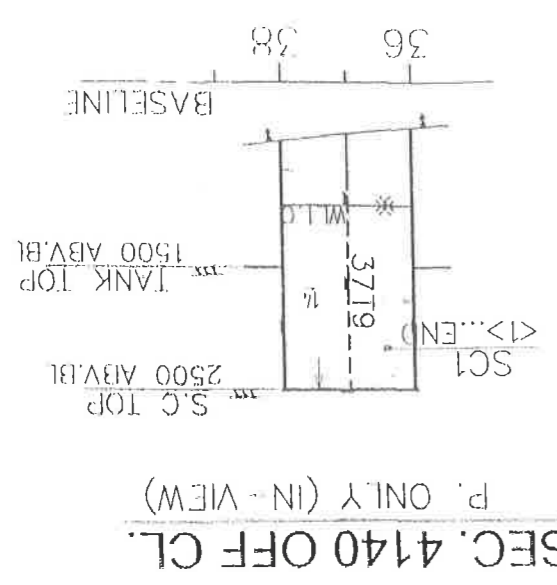
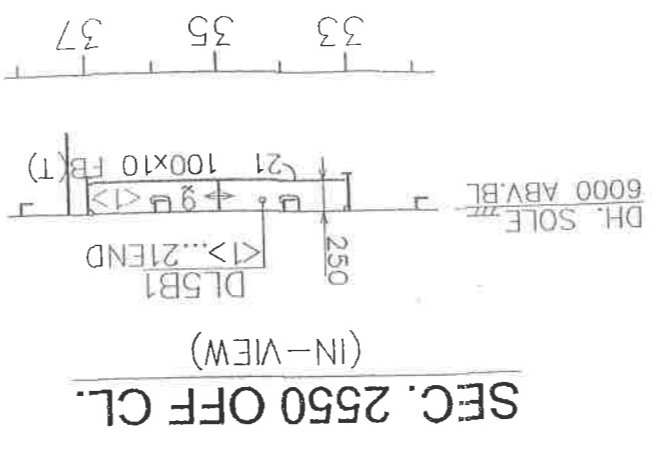
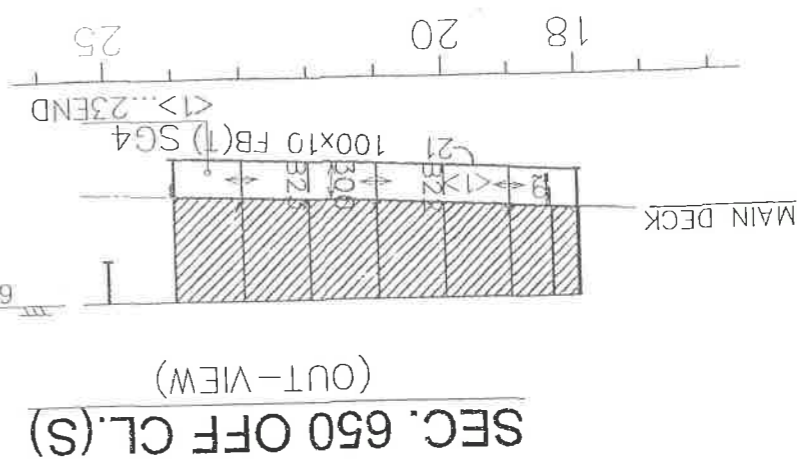
NO. 2 ENG. GIRDER(S) (OUT-VIEW)

NO. 2 ENG. GIRDER(P) (IN VIEW)

WELDING DET. B

UP
FORE

DWG. TITLE	ASSEMBLY DRAWING B02
HULL NO.	159
DWG. NO.	000 102.B02
SCALE	1:50
REVISION	012345
SHEET	10 OF 26

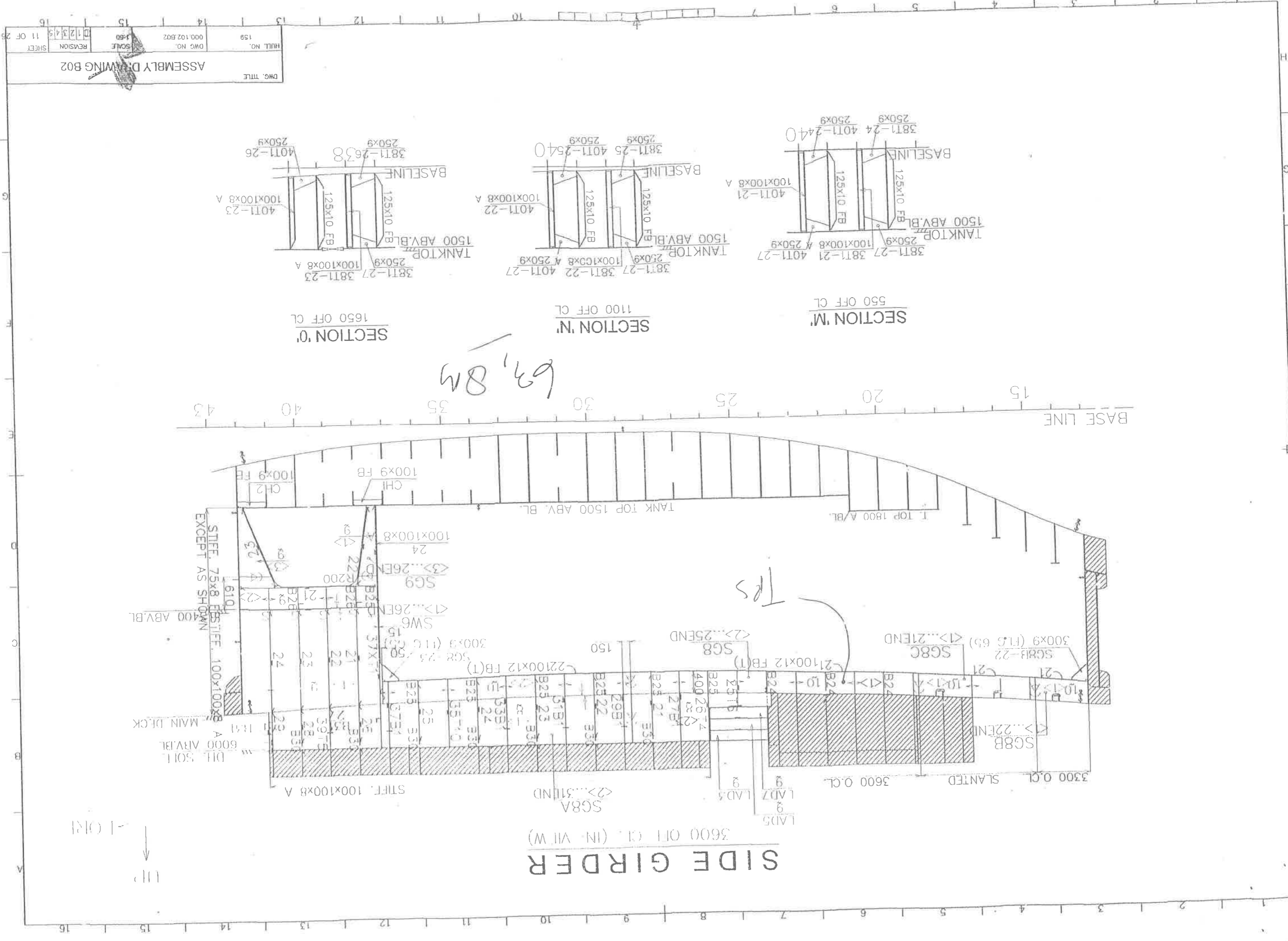


*bw: 100+200 = 300
tw: 80 x 3 = 240*

SEE PAGE 7/25

"X"

UP
FOR



SIDE GIRDER
3600 O.C.L. (IN-VII W)

SECTION '0'
1650 OFF CL

SECTION 'N'
1100 OFF CL

SECTION 'M'
550 OFF CL

DWG. TITLE		ASSEMBLY DRAWING B02	
HULL NO.	158	DWG NO.	000.102.B02
SCALE	1:50	REVISION	12345
SHEET	11 OF 25		

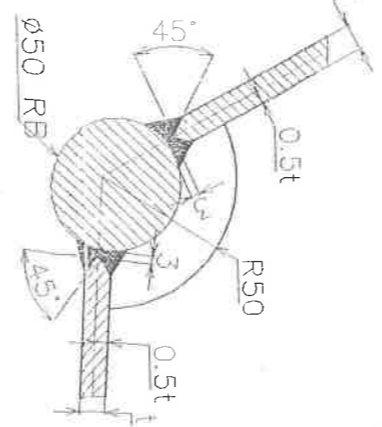
63, 83

Tps

UP
↓

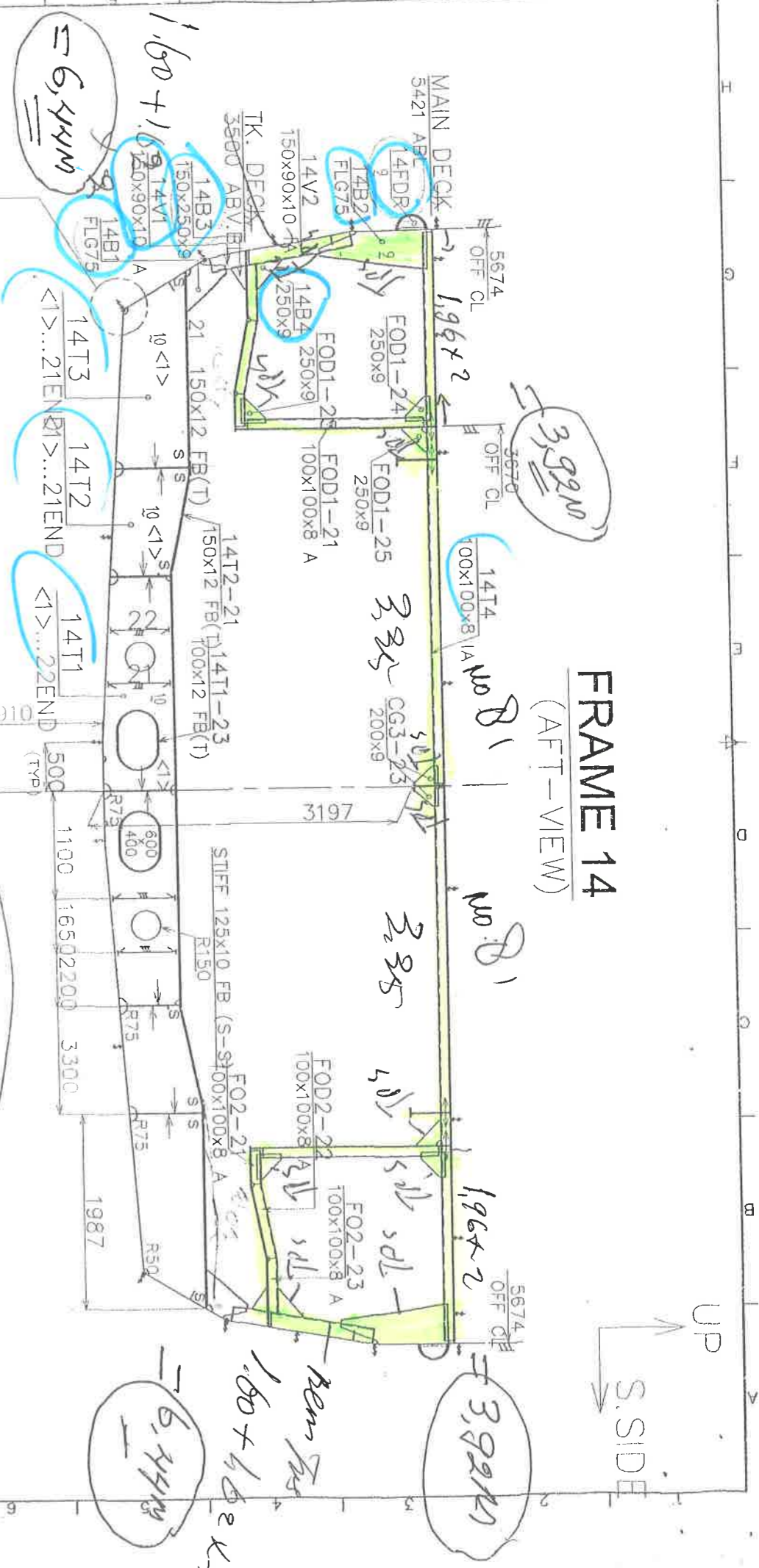
FRAME 14 (AFT-VIEW)

TYP. CHINE BAR CONNECTION



BASELINE

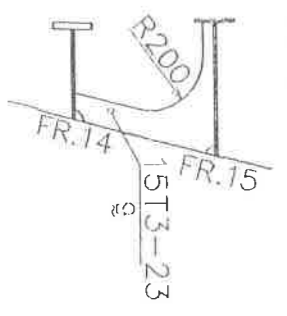
54.84 M



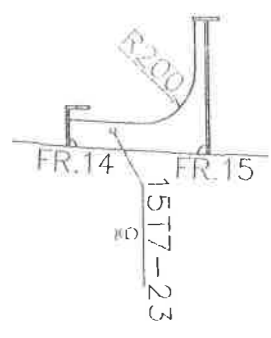
FRAME 15 (AFT-VIEW)

2.46 M
1.23 M x 2
Rem Tk

SECTION '15A' SCALE = 1:25



SECTION '15B' SCALE = 1:25



64.056 M

54.24

6.58 M

1.69 + 1.62 x 2 = 6.58 M

1.69 + 1.62 x 2 = 6.58 M

1.69 + 1.62 x 2 = 6.58 M

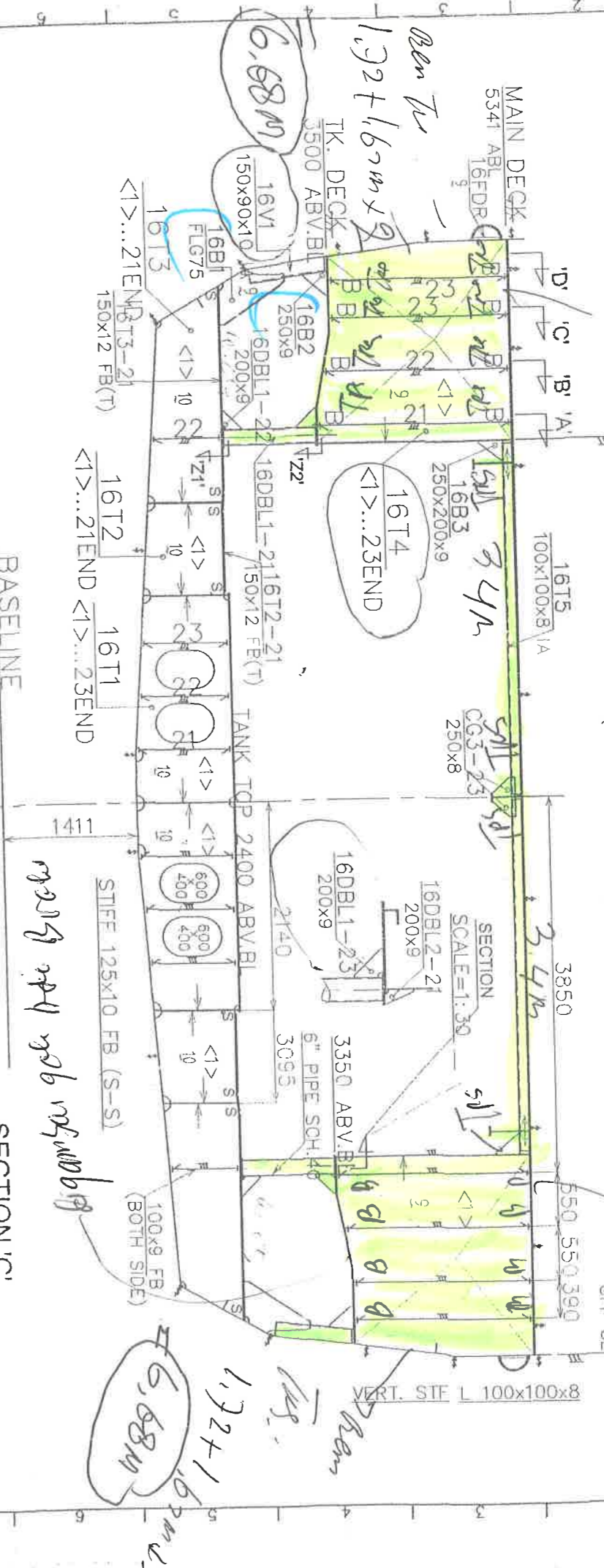
FRAME 16

(AFT-VIEW)

$2.18m \times 2 = 4.36m$

$4.58m \times 2.29m$

S. SIDE



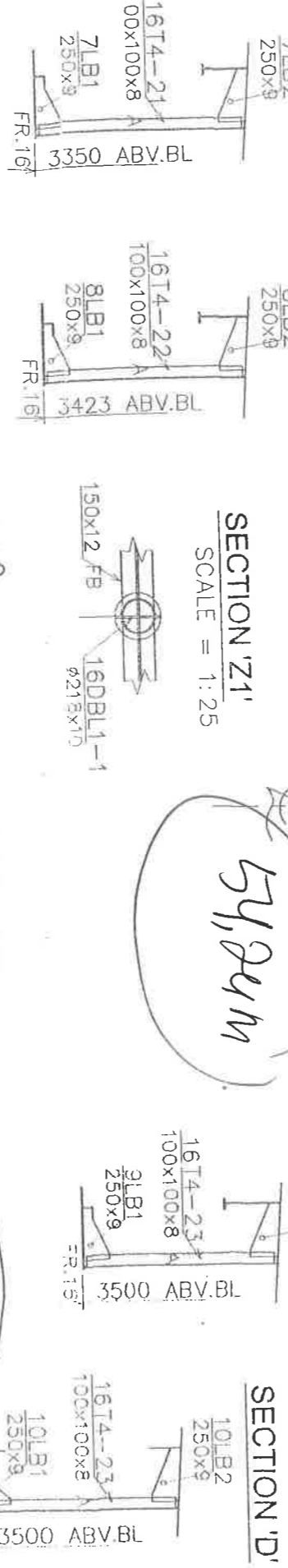
SECTION 'A'

SECTION 'B'

SECTION 'Z1'

SECTION 'C'

SECTION 'D'

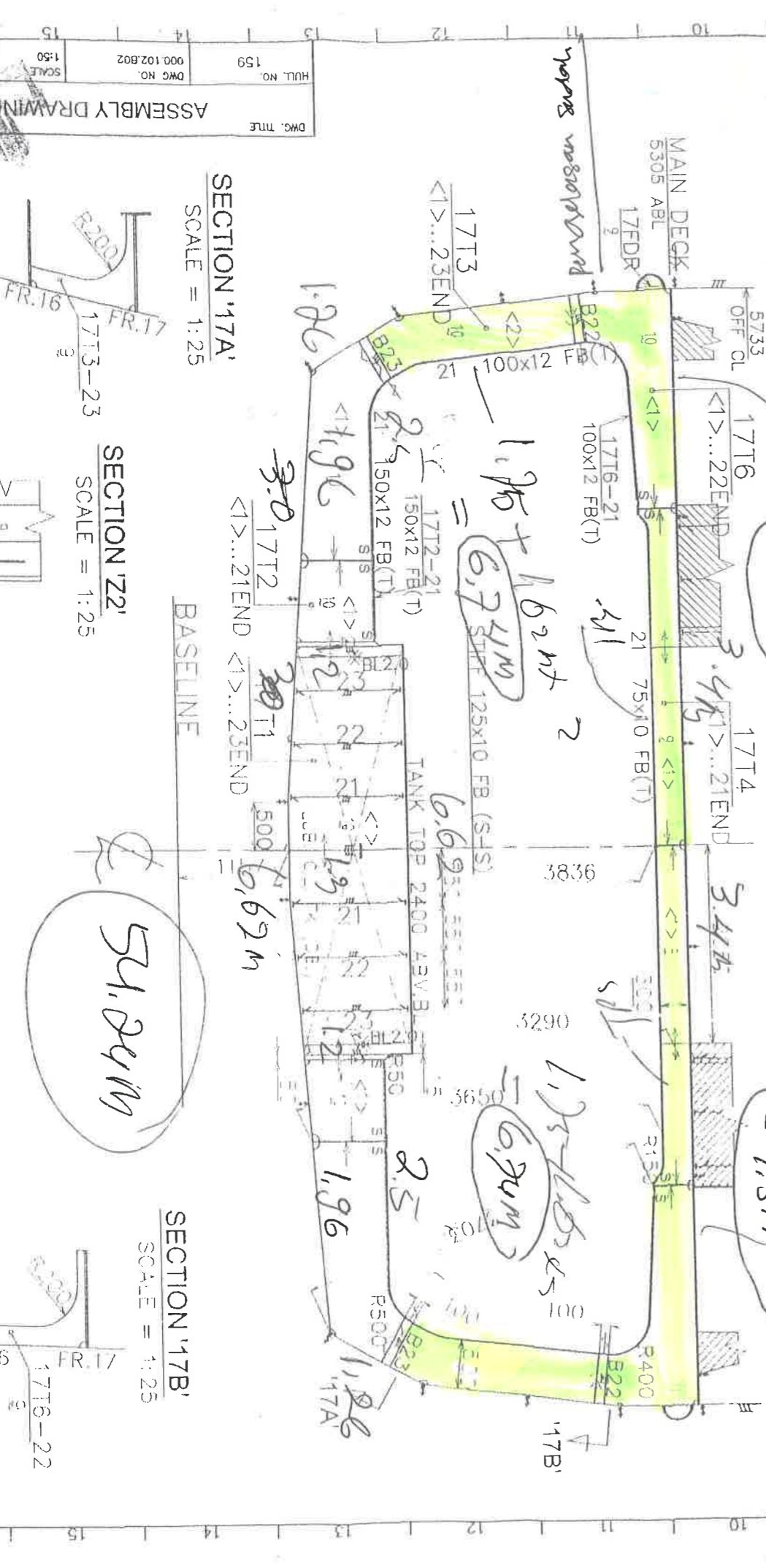


FRAME 17

(AFT-VIEW)

$2.25 \times 2 = 4.5m$

$2.25 \times 2 = 4.5m$



SECTION '17A'

SECTION 'Z2'

SECTION '17B'



HULL NO. 159		DWG. TITLE ASSEMBLY DRAWING B02
DWG NO. 000 102 B02		
SCALE	1:50	
REVISION	1 2 3 4 5	
SHEET 13 OF 26		

- 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 29, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39

$2.7 + 0.55$

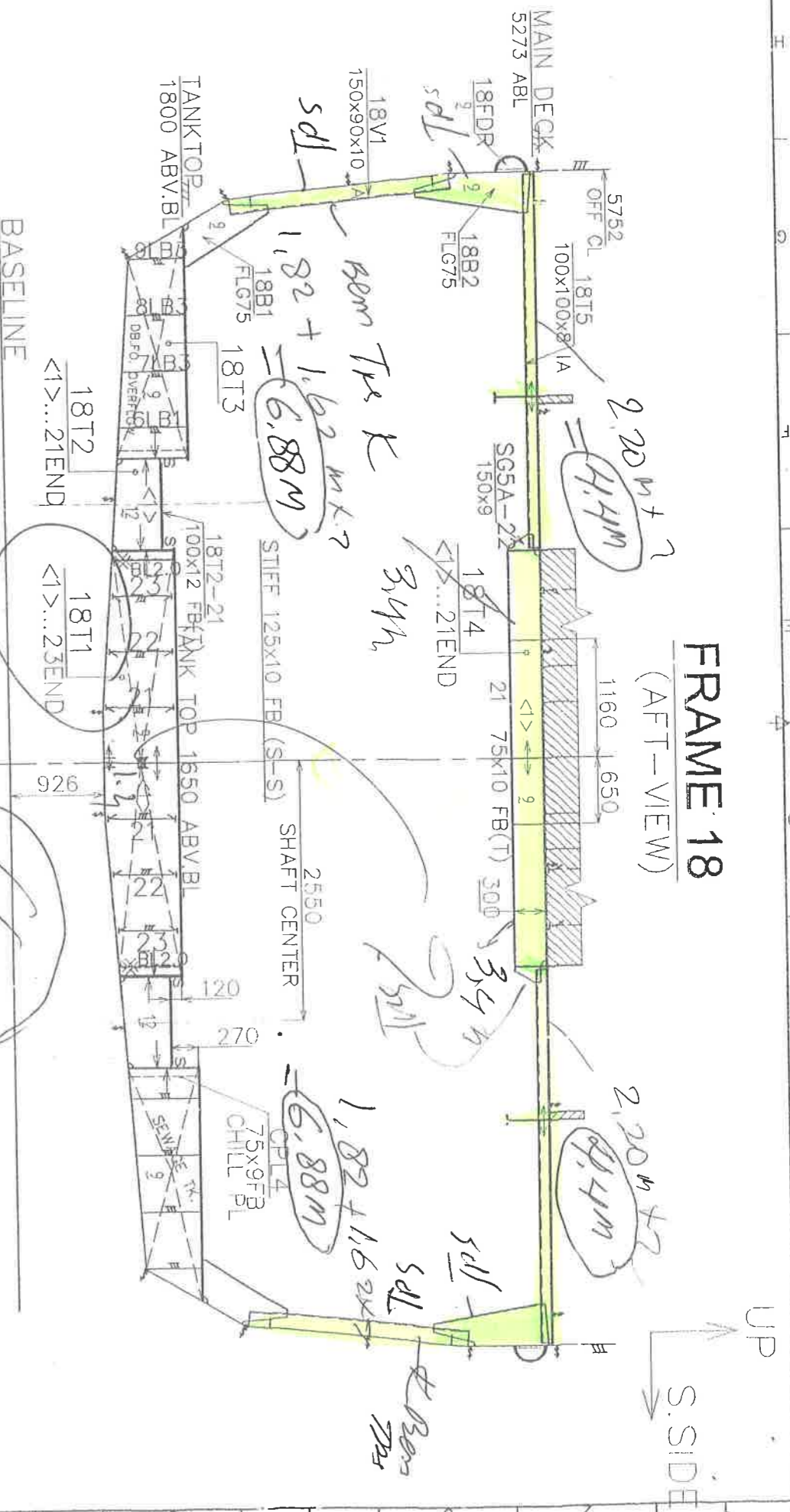
5.5

5.5

3

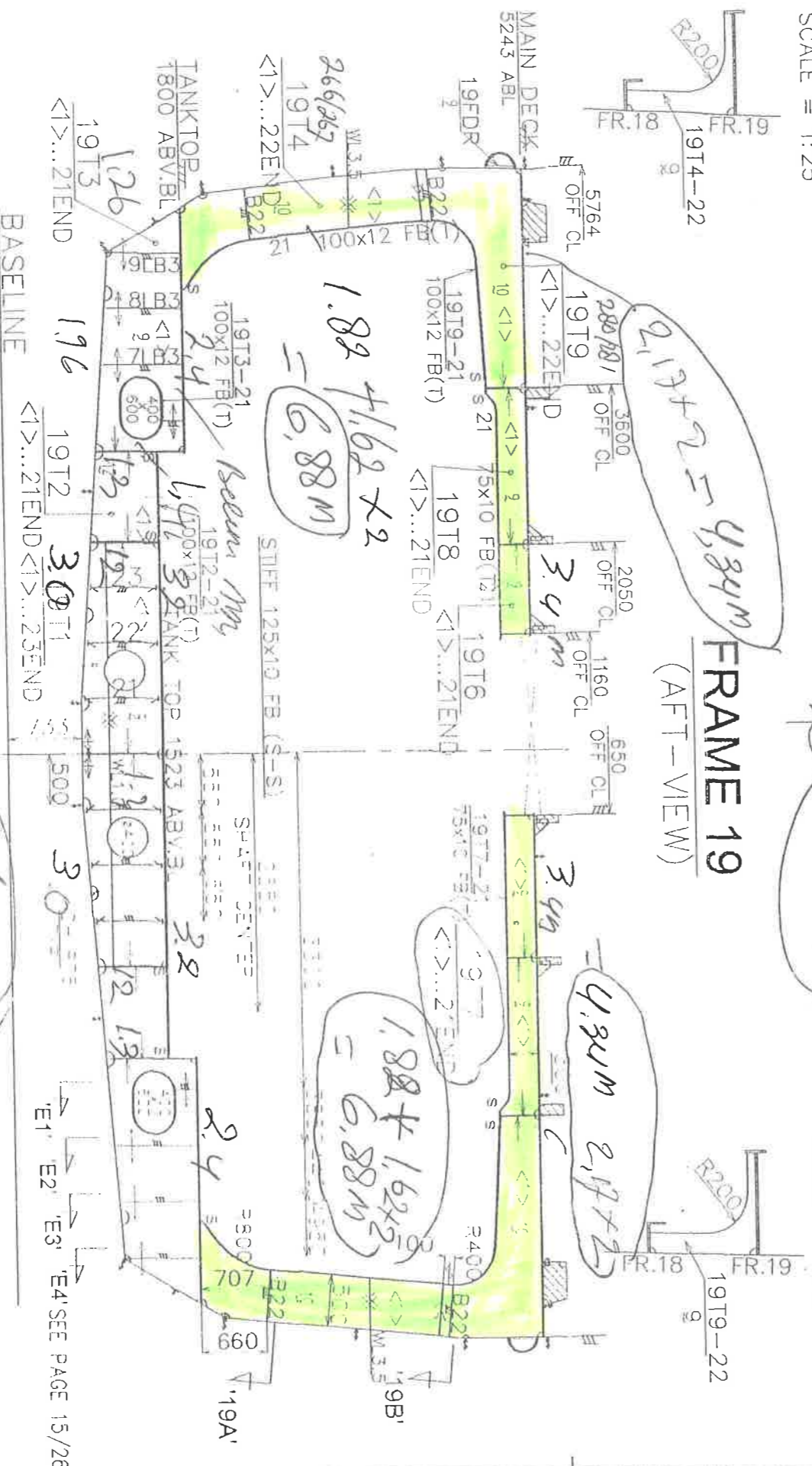
FRAME 18

(AFT-VIEW)



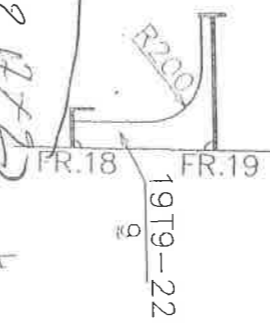
FRAME 19

(AFT-VIEW)



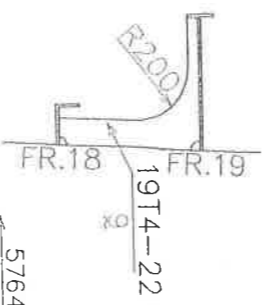
SECTION '19B'

SCALE = 1:25



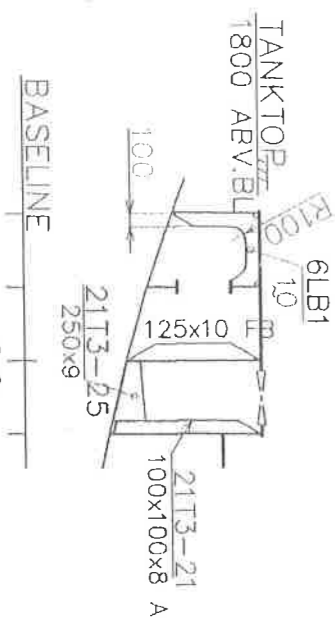
SECTION '19A'

SCALE = 1:25



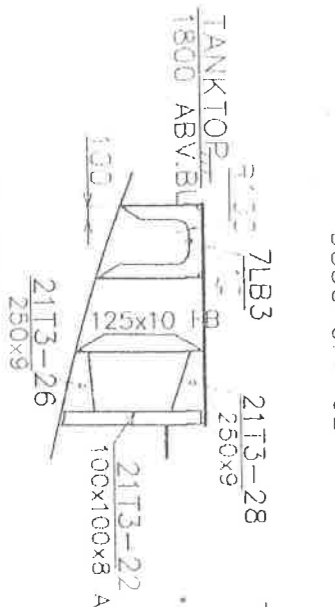
SECTION 'E1'

3300 OFF CL



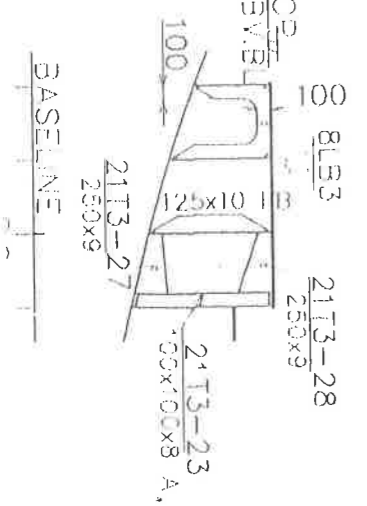
SECTION 'E2'

3850 OFF CL



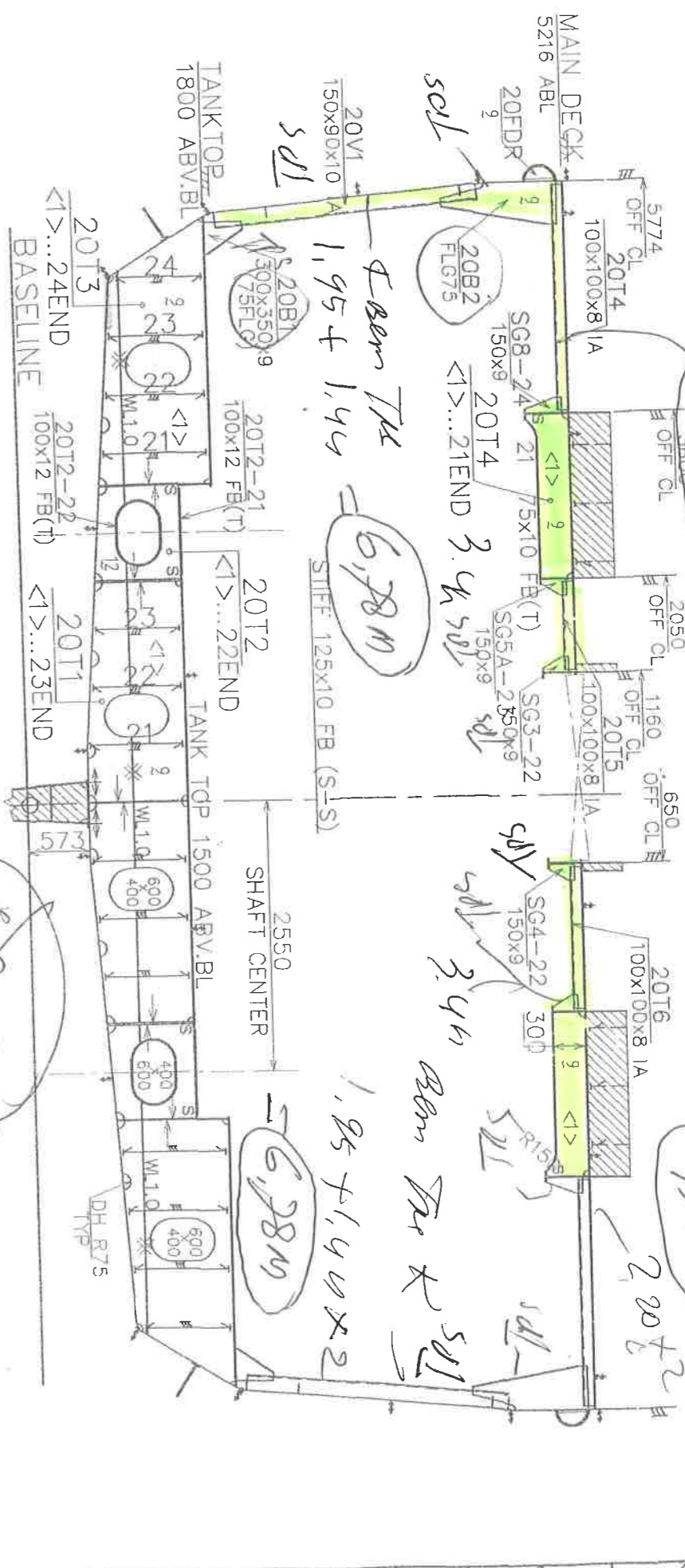
SECTION 'E3'

4100 OFF CL

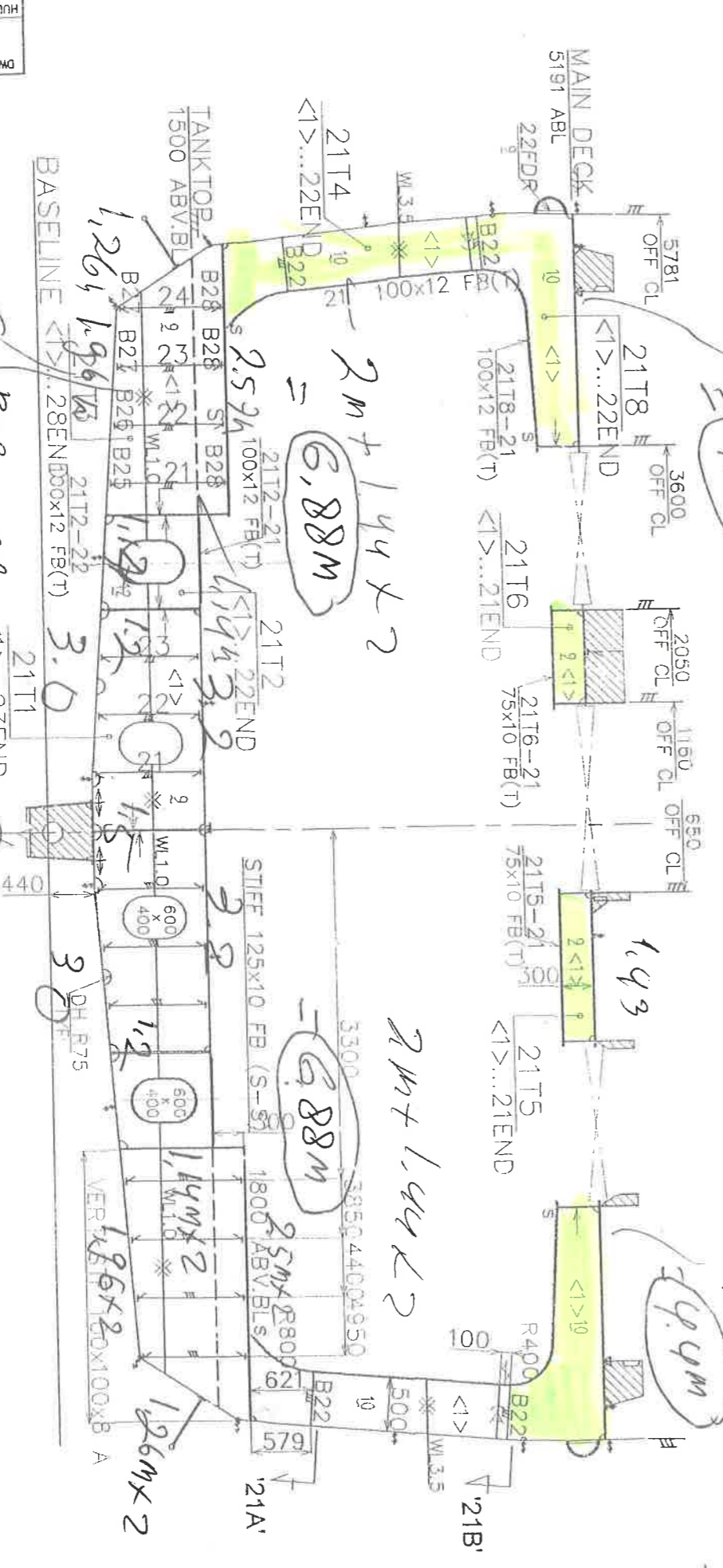


55.6 2

FRAME 20 (AFT-VIEW)



FRAME 21 (AFT-VIEW)



SECTION '21A'

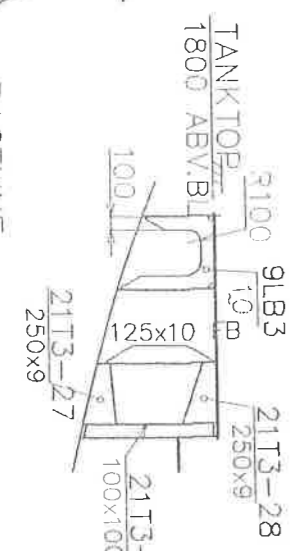
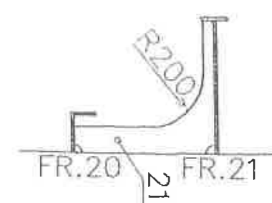
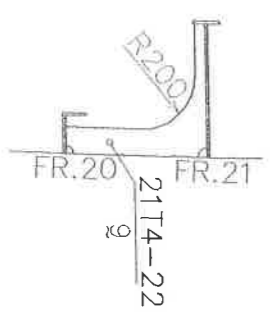
SECTION '21B'

SECTION 'E4'

SCALE = 1:25

SCALE = 1:25

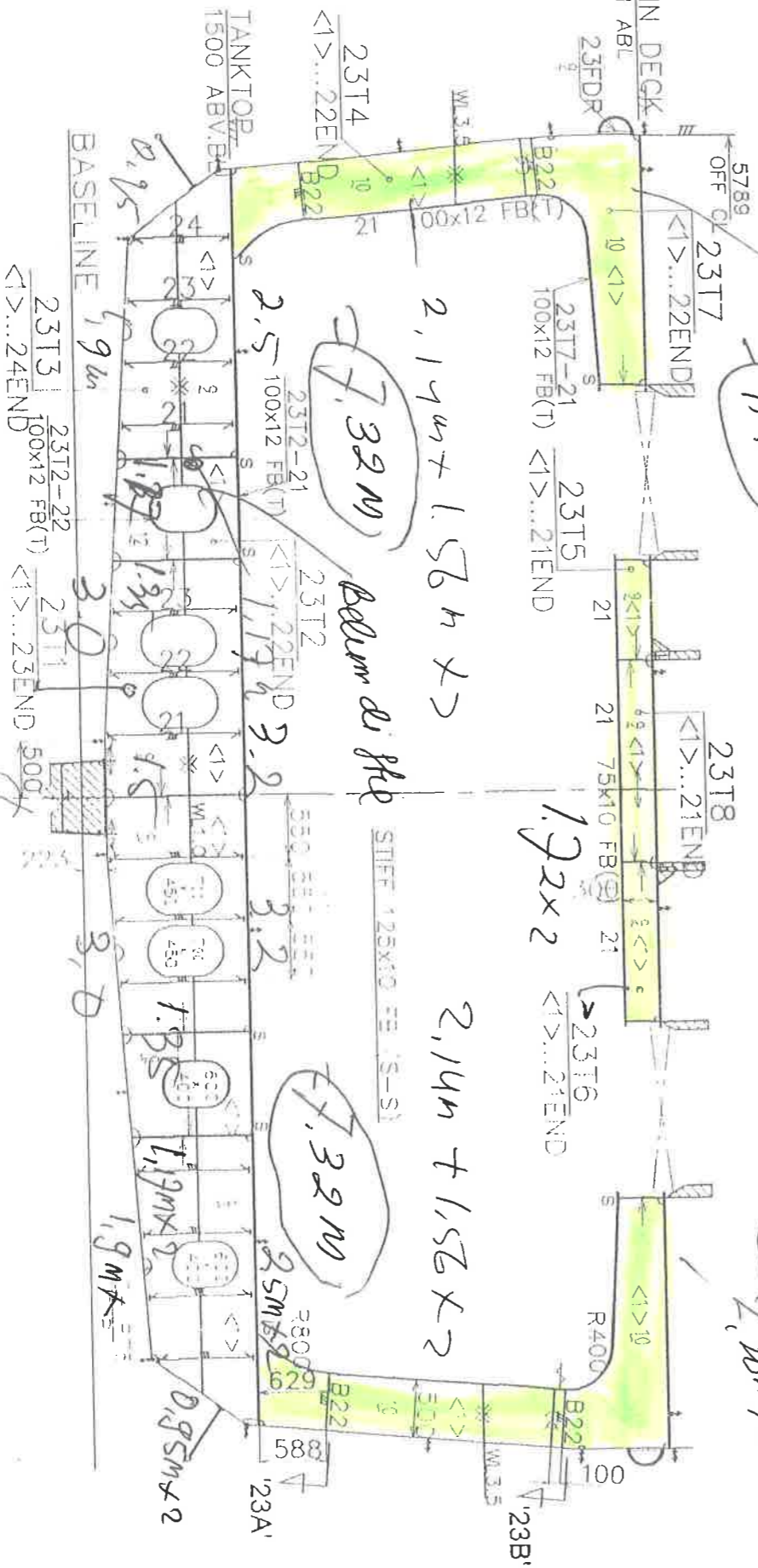
SCALE = 1:25



HULL NO.	159
DWG NO.	090 102.B02
SCALE	1:25
REVISION	1
SHEET	15 OF 26
ASSEMBLY DRAWING B02	

SECTION '23A'
 SCALE = 1:25

SECTION '23B'
 SCALE = 1:25



FRAME 23 (AFT-VIEW)
 (AFT-VIEW)

4.4M
 2.20M x 2

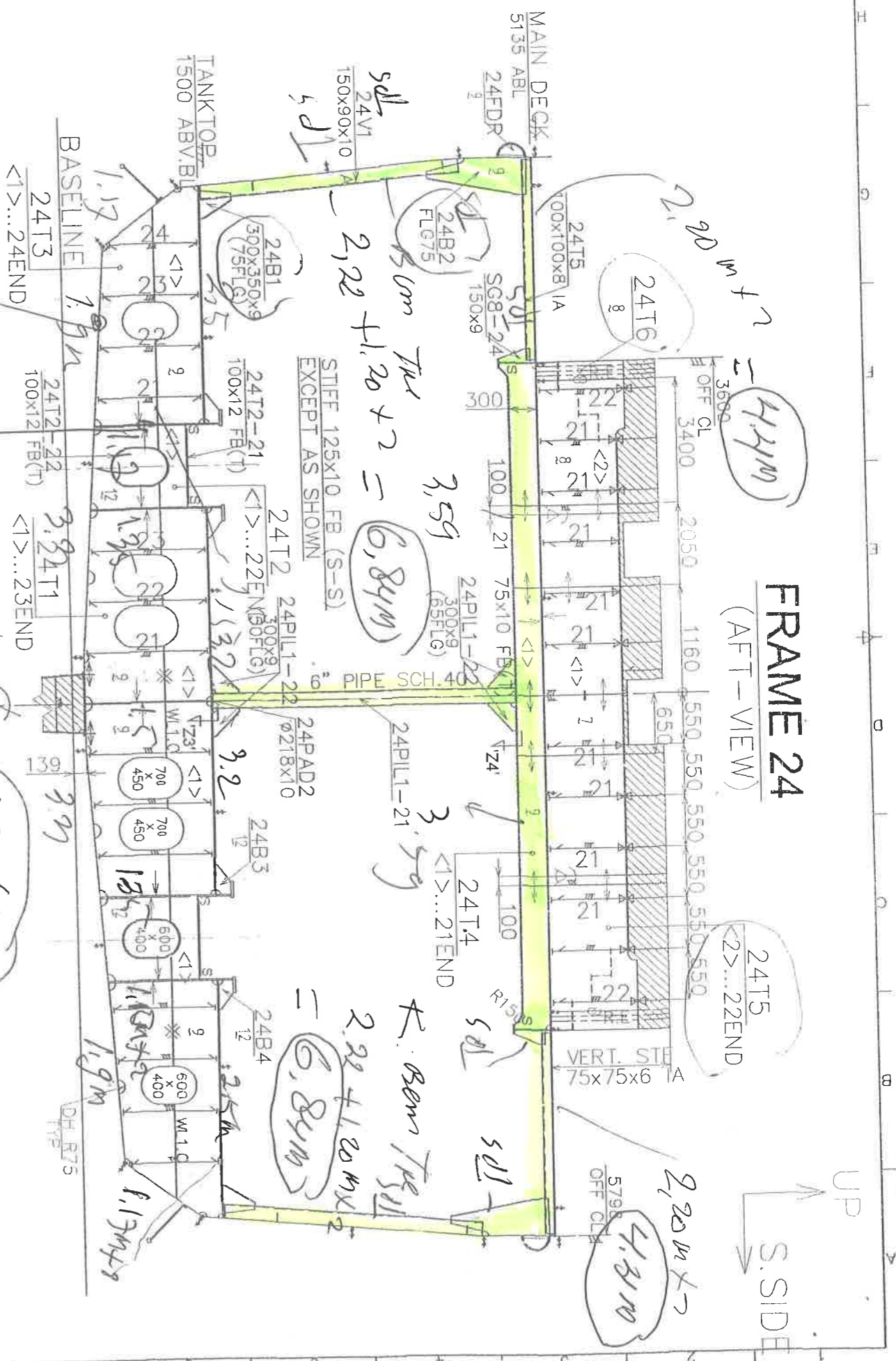
FRAME 22 (AFT-VIEW)
 (AFT-VIEW)

4.4M
 2.20M x 2

4.4M
 2.20M x 2
 2.08 + 1.56 x 2
 7.28M
 2.08 + 1.56 x 2
 7.28M
 2.08 + 1.56 x 2
 7.28M

Handwritten notes and dimensions at the top of the drawing, including '2.08 + 1.56 x 2' and '7.28M'.

UP
 S. SIDE

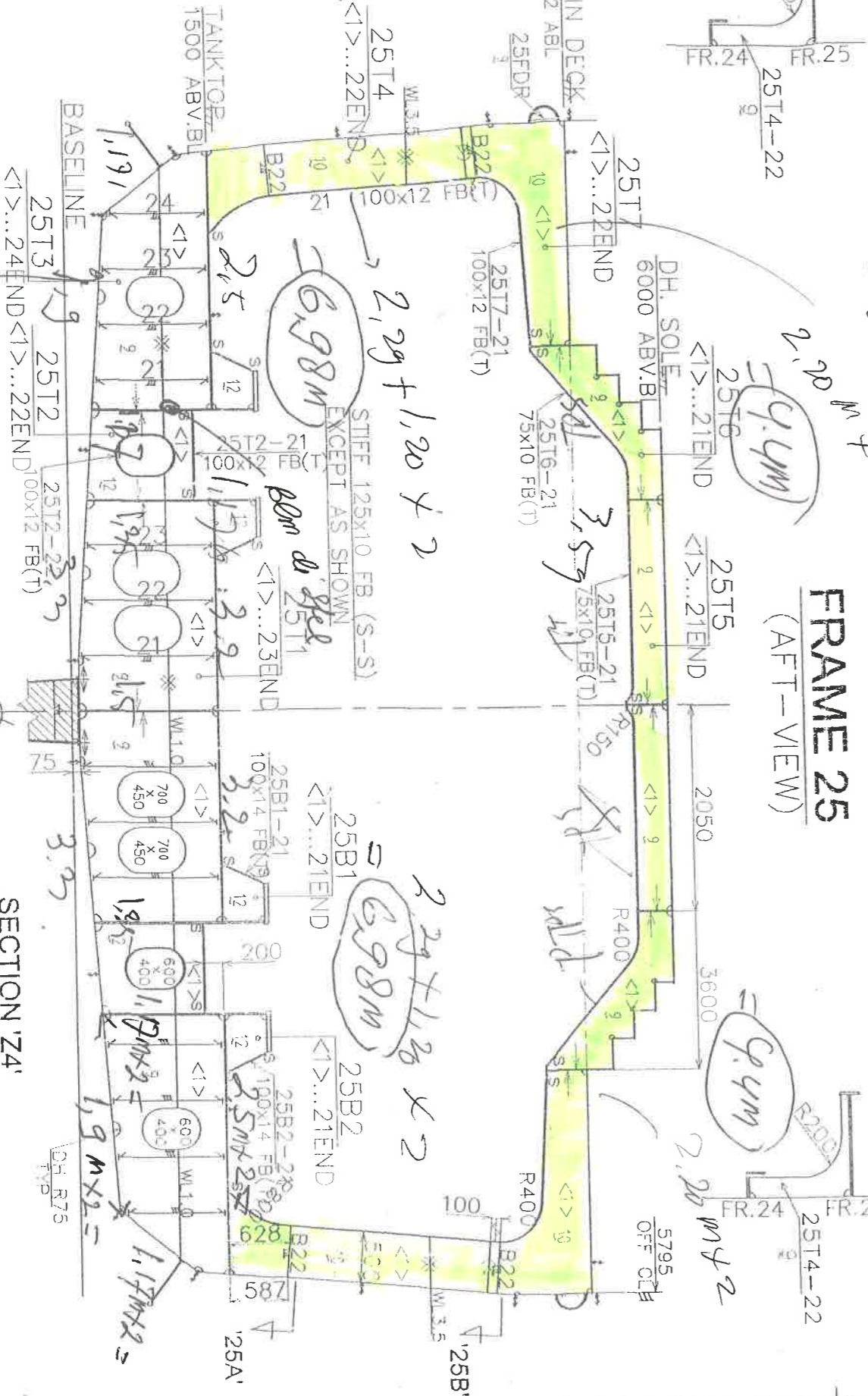


FRAME 24
 (AFT-VIEW)

SECTION '25A'
 SCALE = 1:25

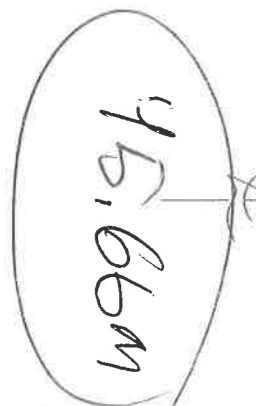
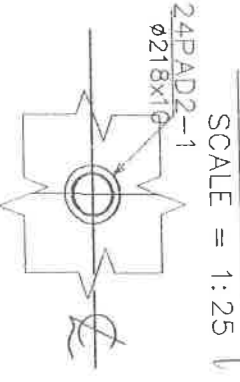
SECTION '25B'
 SCALE = 1:25

FRAME 25
 (AFT-VIEW)



SECTION '23'
 SCALE = 1:25

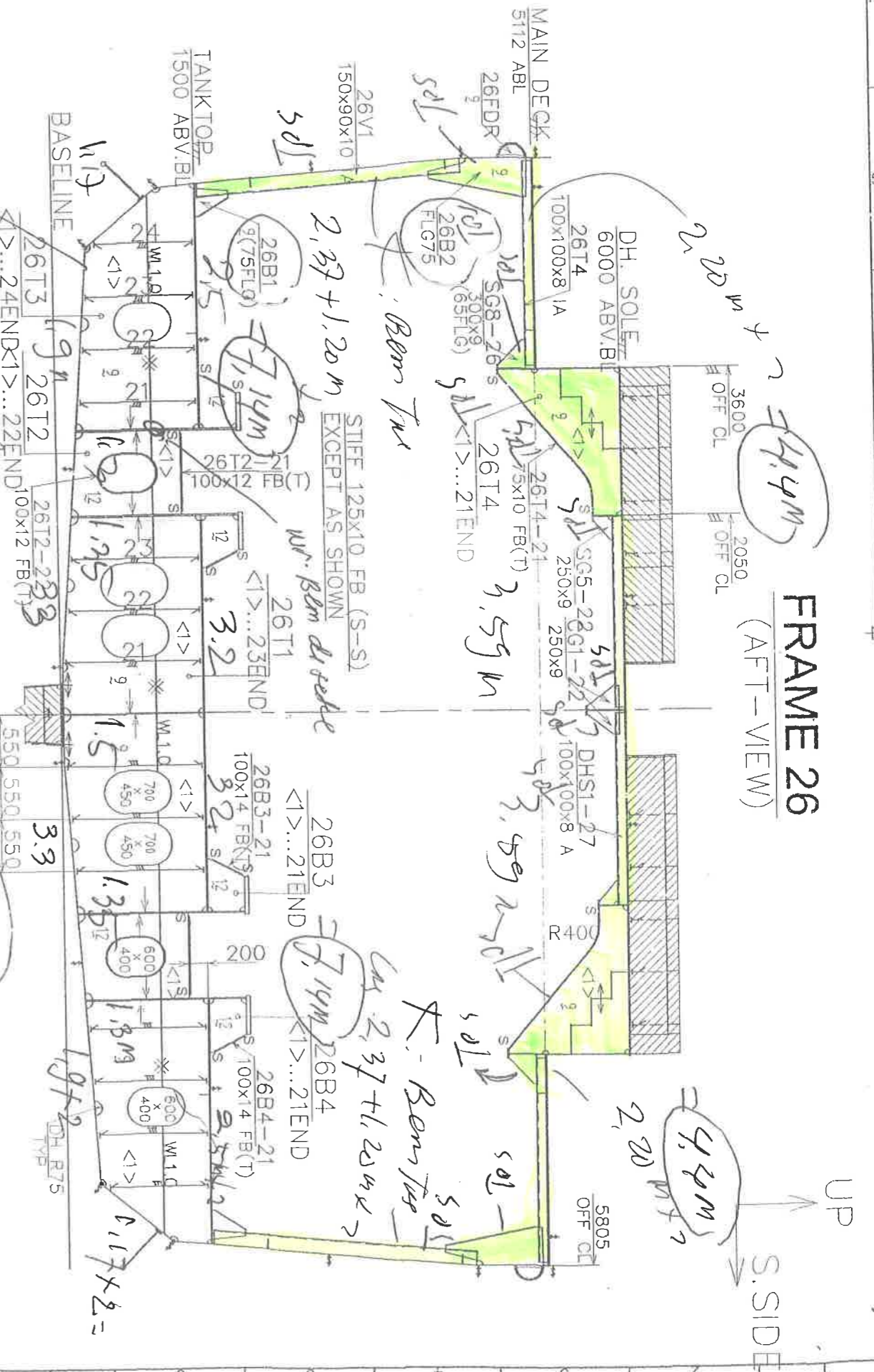
SECTION '24'
 SCALE = 1:25



Handwritten note: $2,29 + 1,20 \times 2 = 3,49$ m

Handwritten note: $45,66$ m

FRAME 26
(AFT-VIEW)

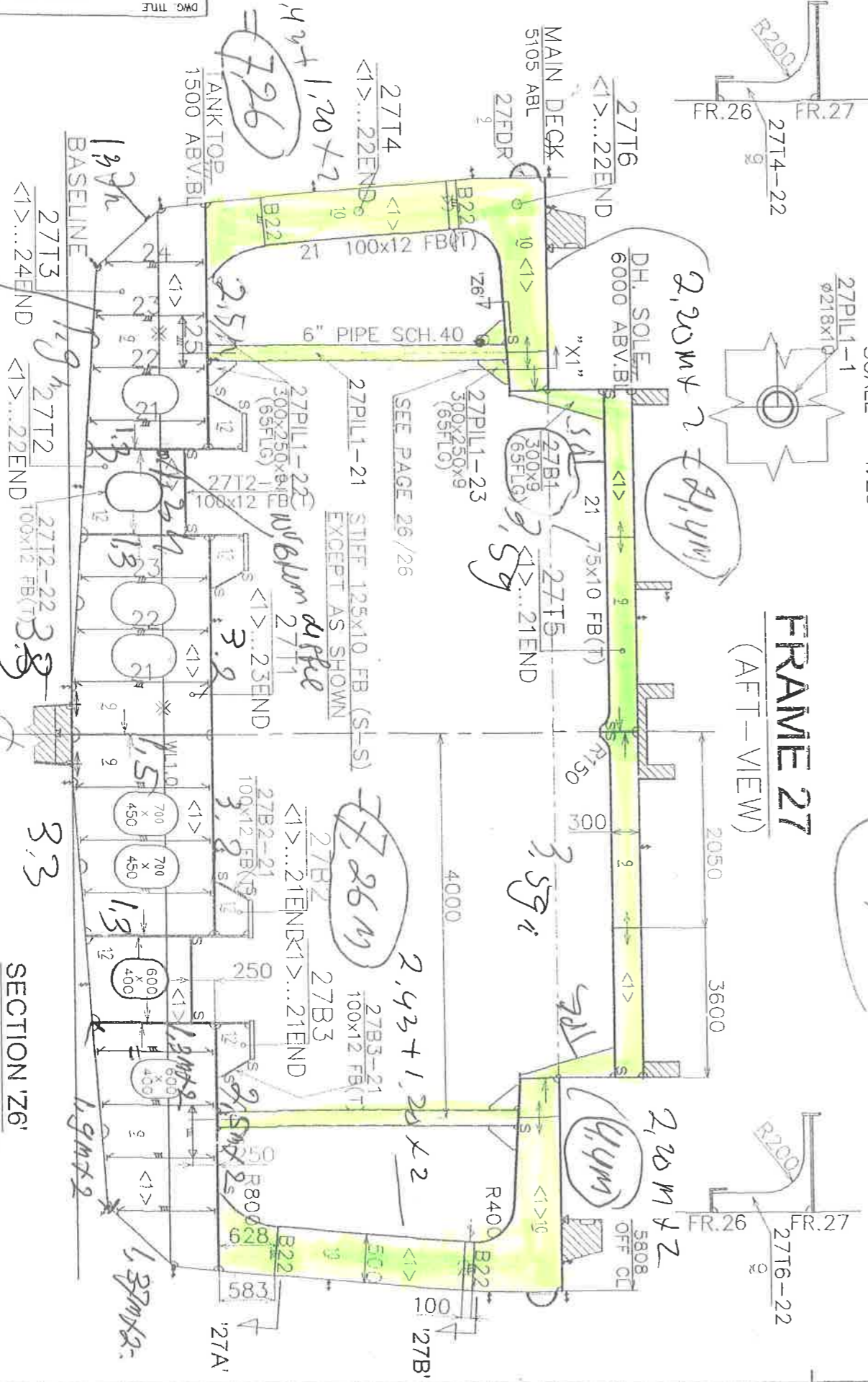


SECTION '27A'
SCALE = 1:25

SECTION '25'
SCALE = 1:25

SECTION '27B'
SCALE = 1:25

FRAME 27
(AFT-VIEW)

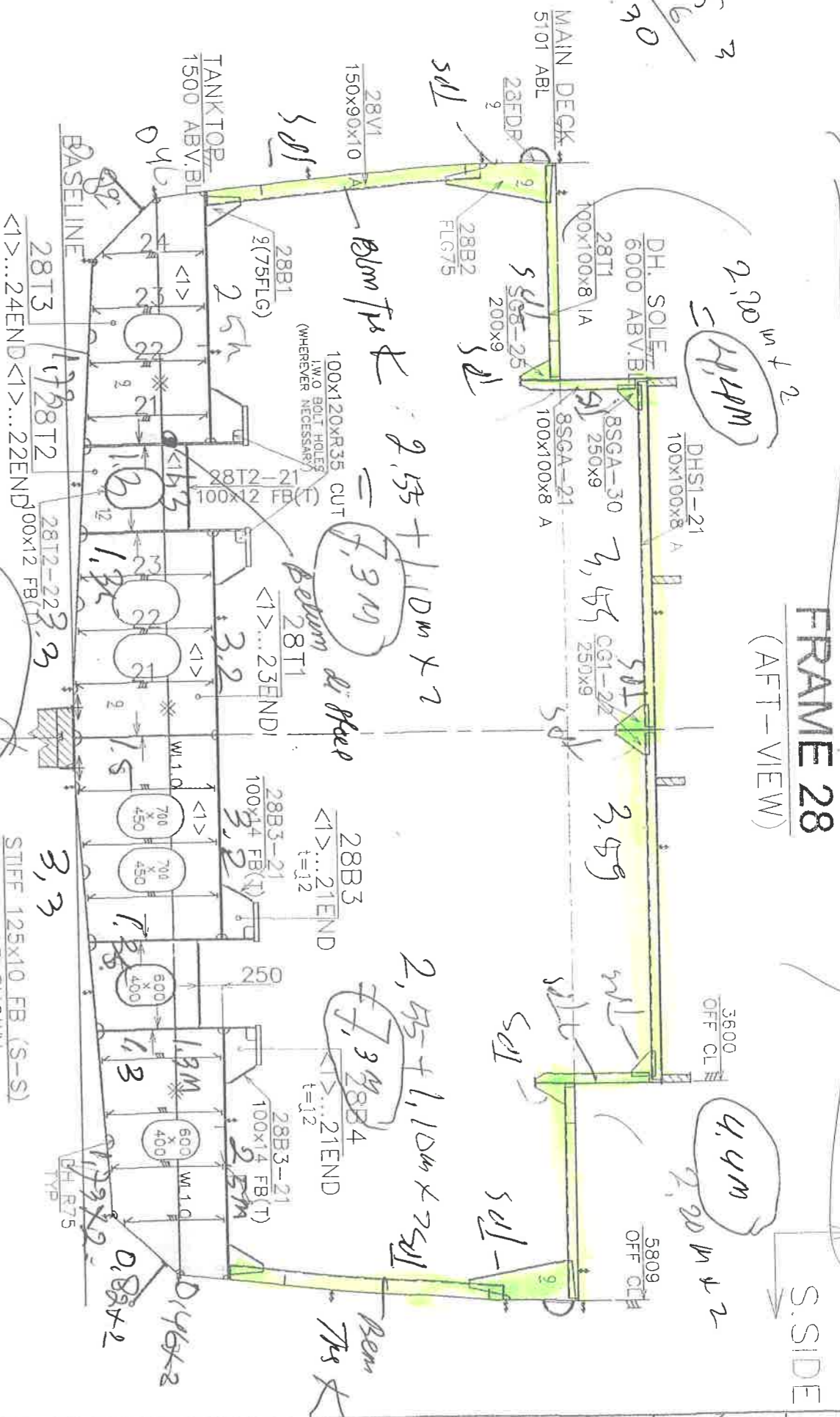


SECTION '26'
SCALE = 1:25

5.5
4.90

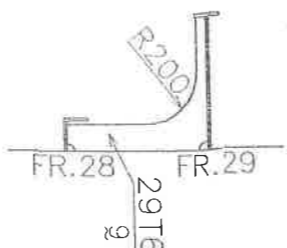
Plw surface 28 down 29

FRAME 28 (AFT-VIEW)

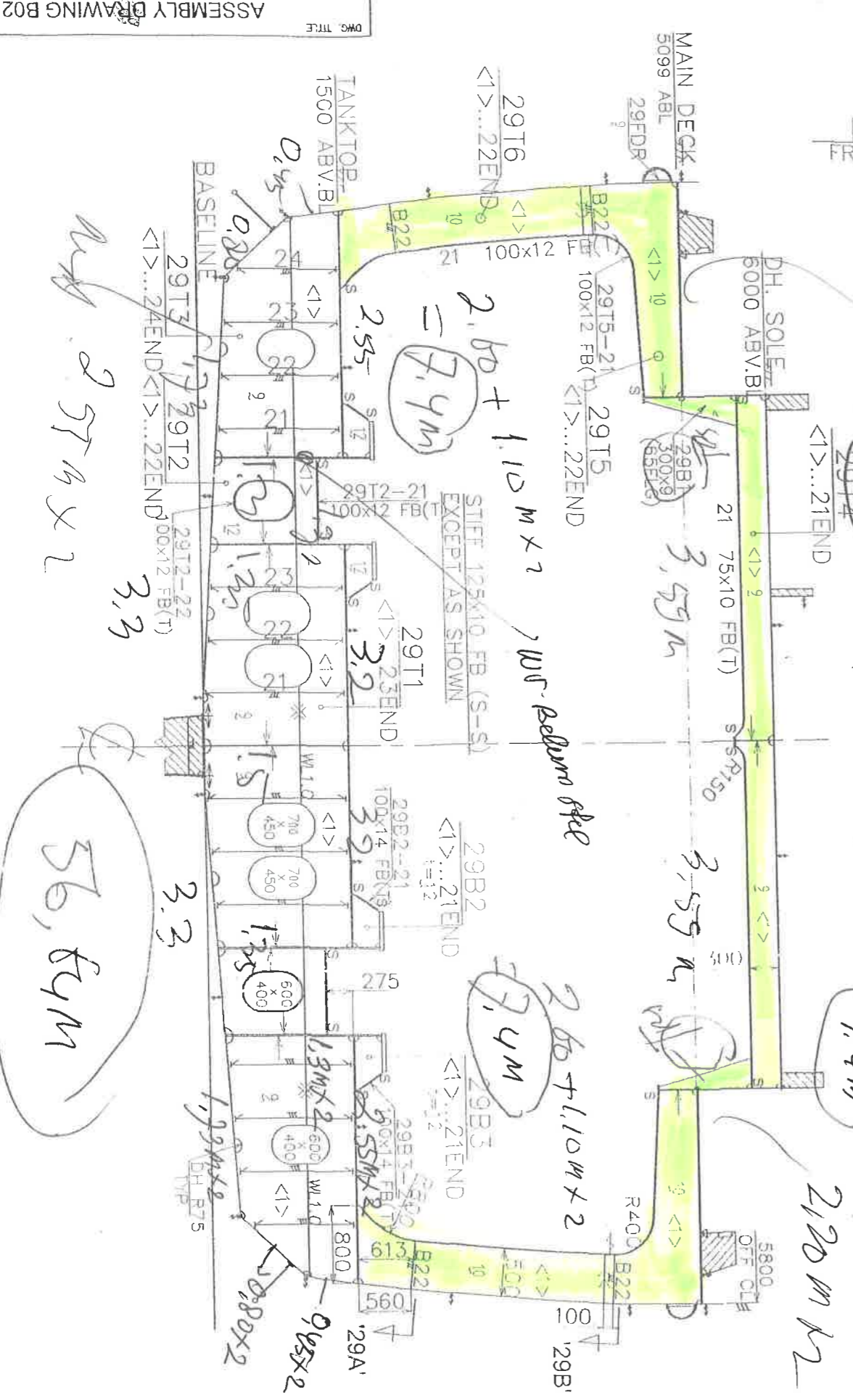


SECTION '29A'

SCALE = 1:25

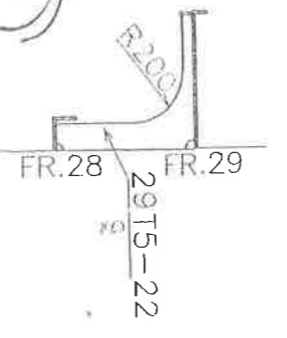


FRAME 29 (AFT-VIEW)



SECTION '29B'

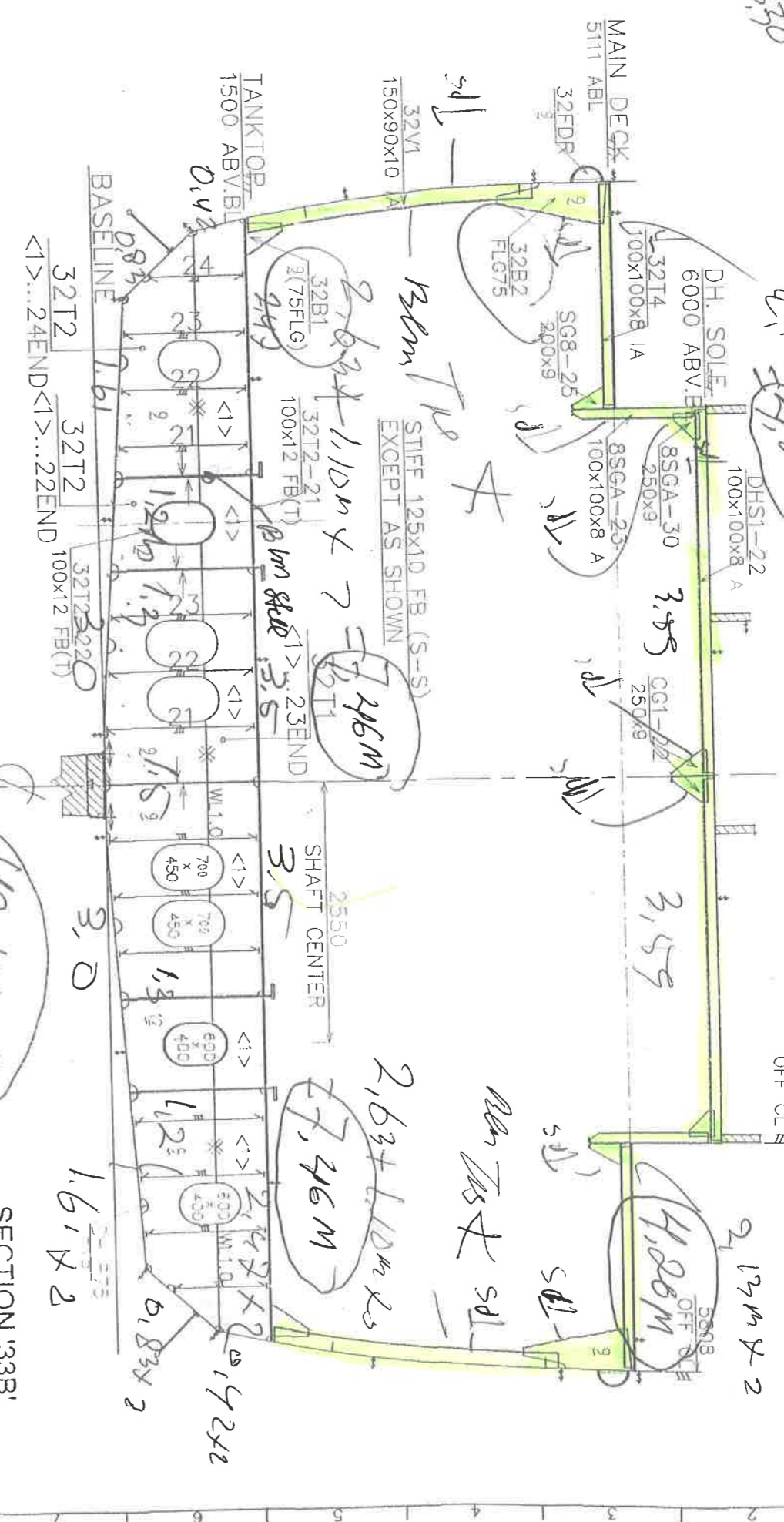
SCALE = 1:25



HWL NO.	159
DWG NO.	090 102 B02
SCALE	1:50
REVISION	1
SHEET	19 OF 25
ASSEMBLY DRAWING B02	

3
 5.5
 3.30

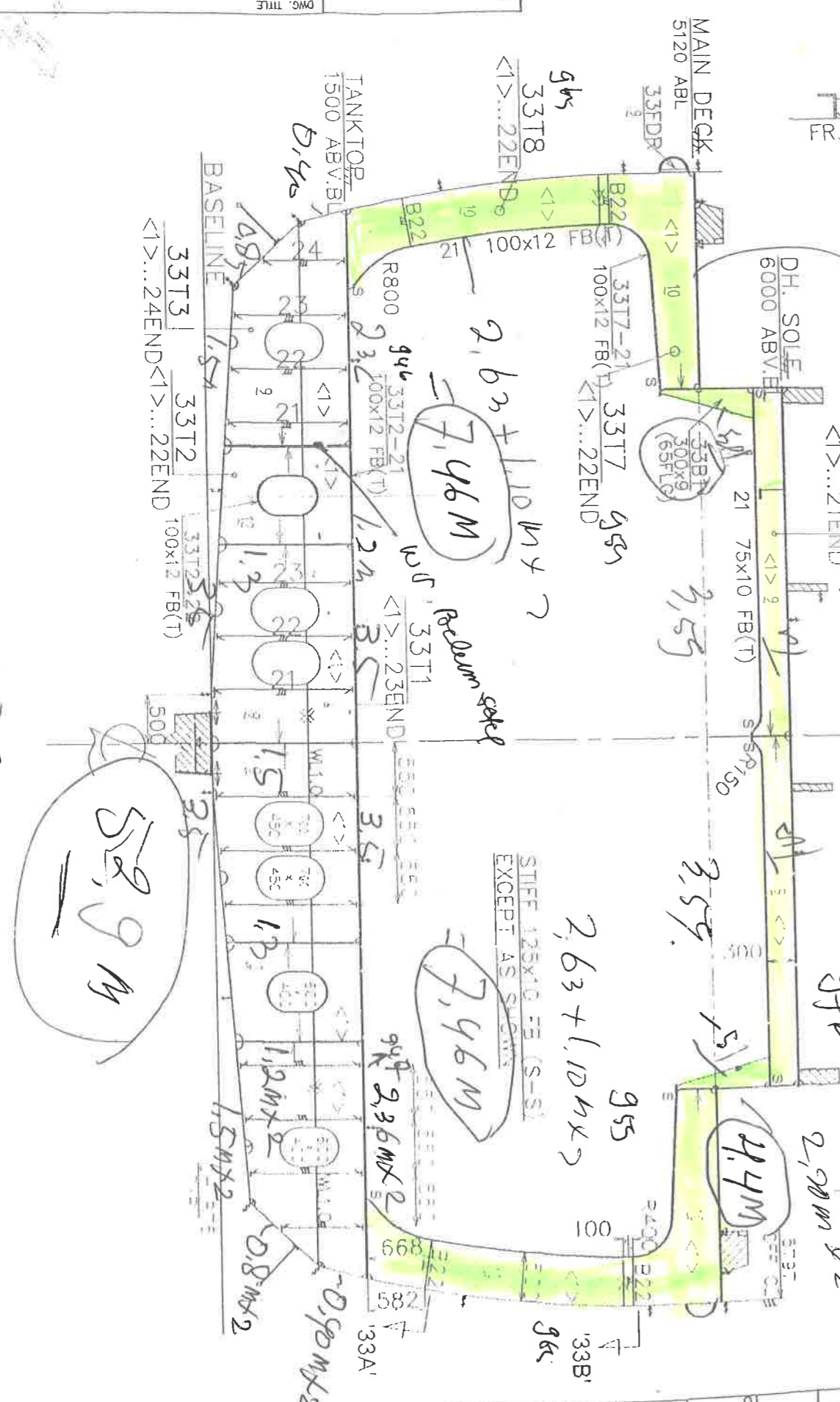
FRAME 32
 (AFT-VIEW)



SECTION '33B'
 SCALE = 1:25

SECTION '33A'
 SCALE = 1:25

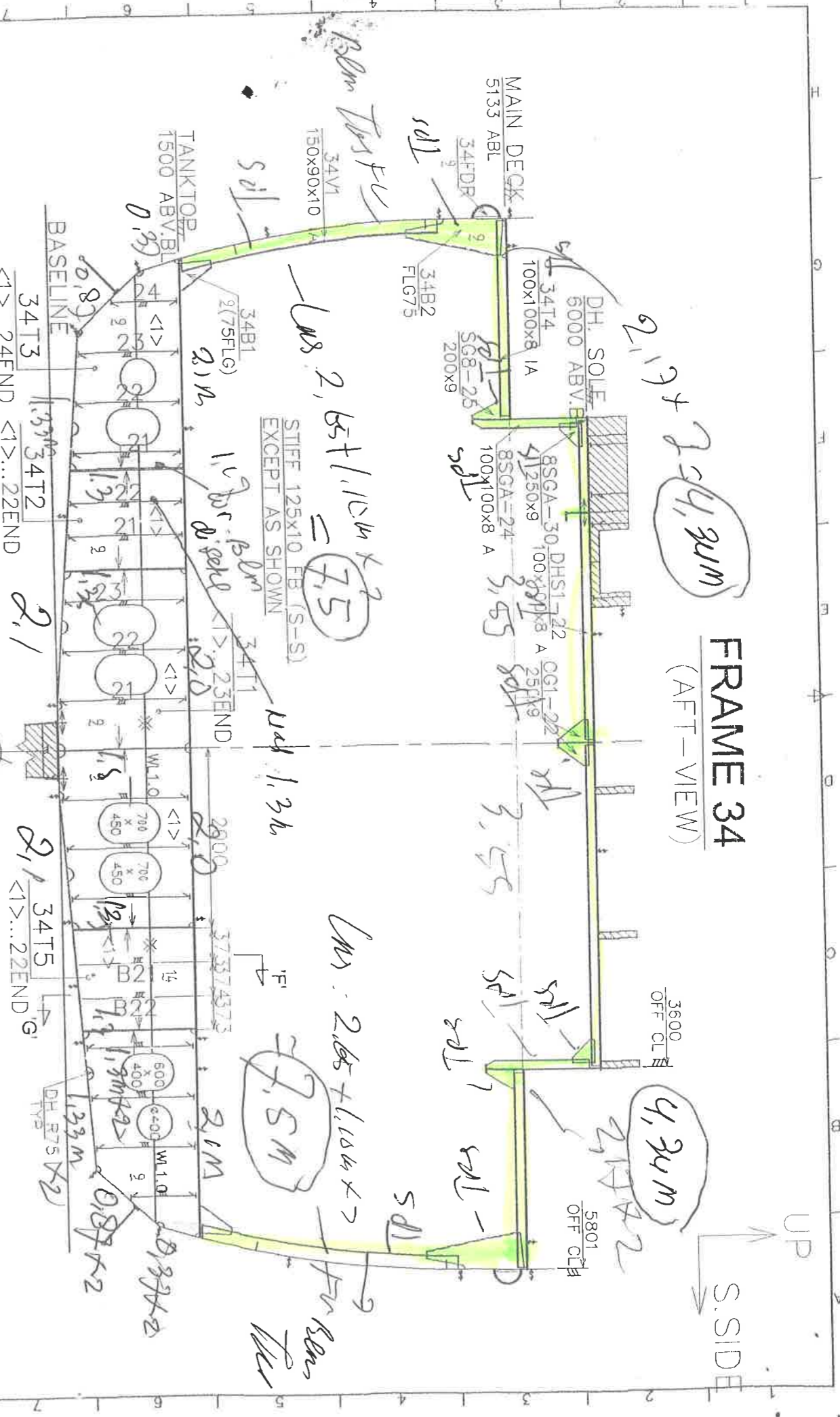
FRAME 33
 (AFT-VIEW)



5.5
 3.30

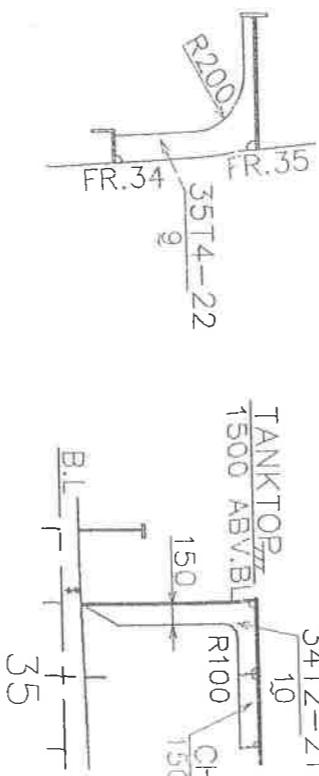
UP
 S. SIDE

FRAME 34 (AFT - VIEW)



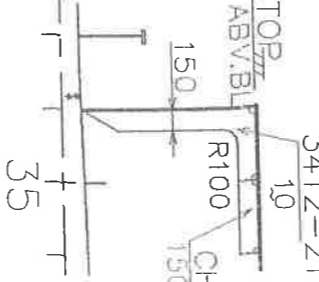
SECTION '35A'

SCALE = 1:25



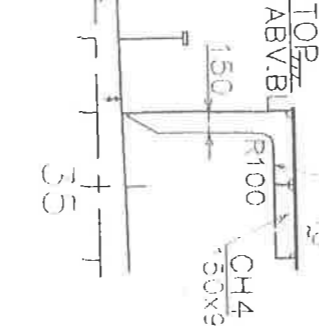
SECTION 'F'

SCALE = 1:25

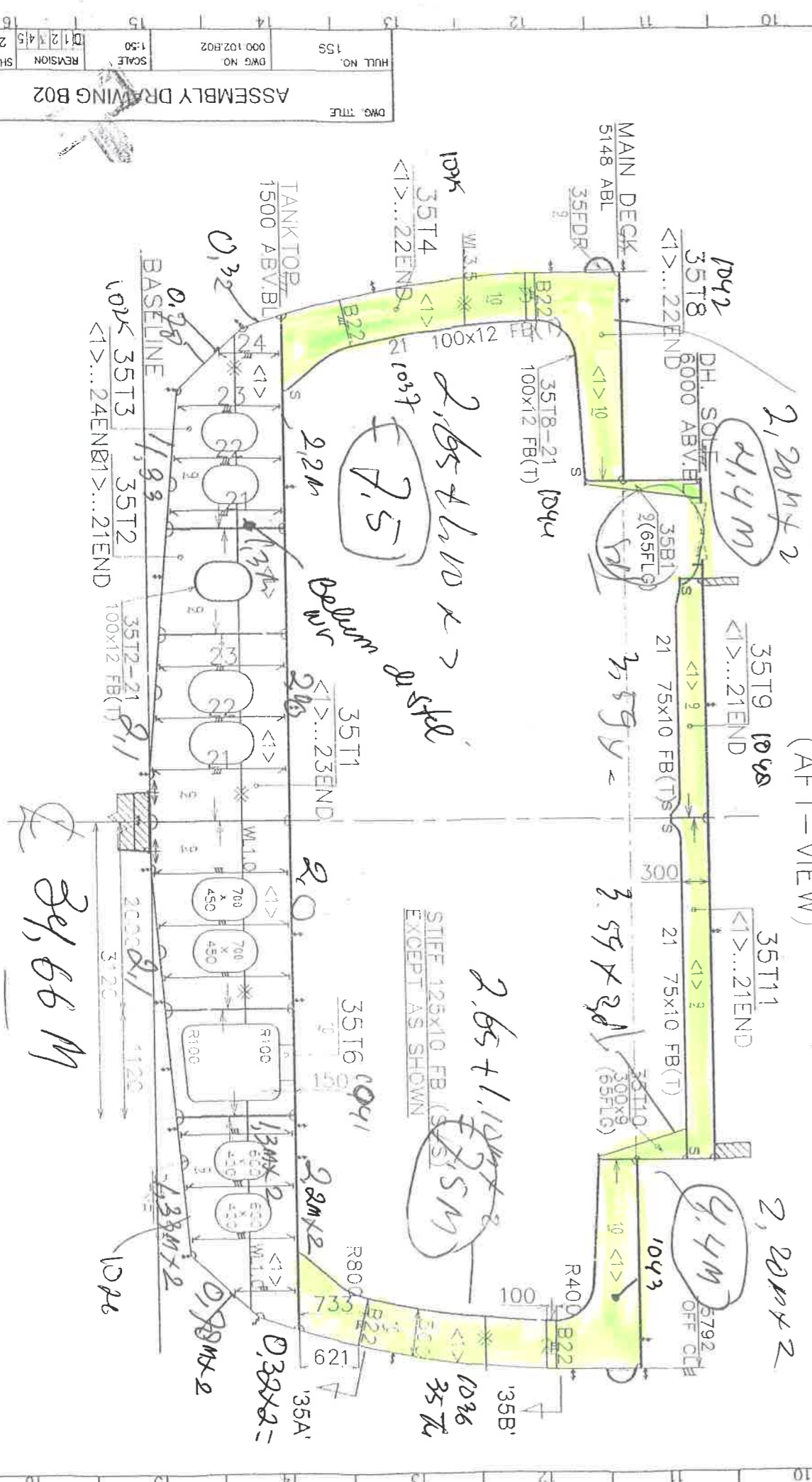


SECTION 'G'

SCALE = 1:25

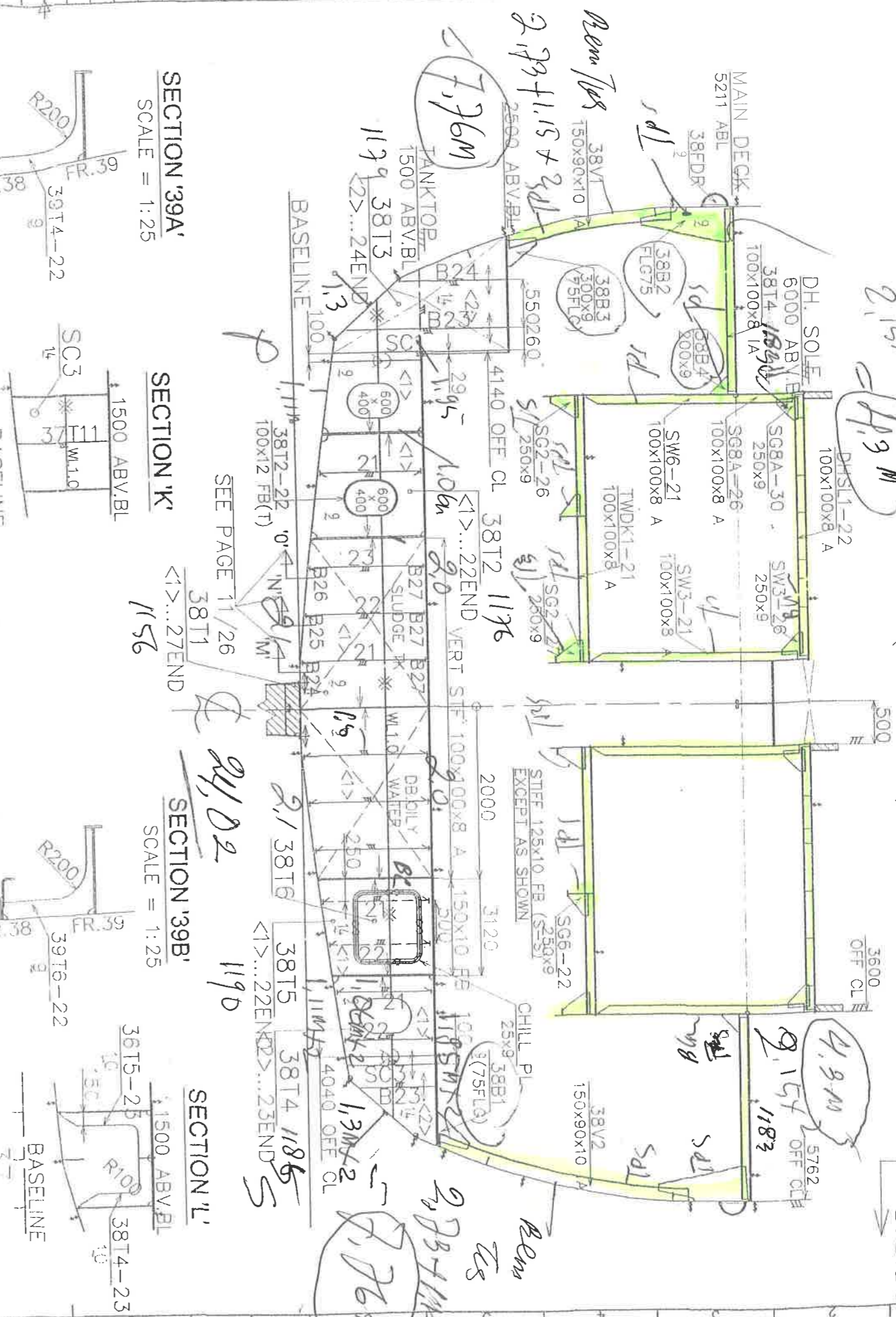


FRAME 35 (AFT - VIEW)



HULL NO. 155	
DWG. NO. 000 102 B02	
SCALE 1:50	
REVISION	SHEET
12/4/5	22 OF 25
ASSEMBLY DRAWING B02	
DWG. TITLE	

FRAME 38
(AFT-VIEW)



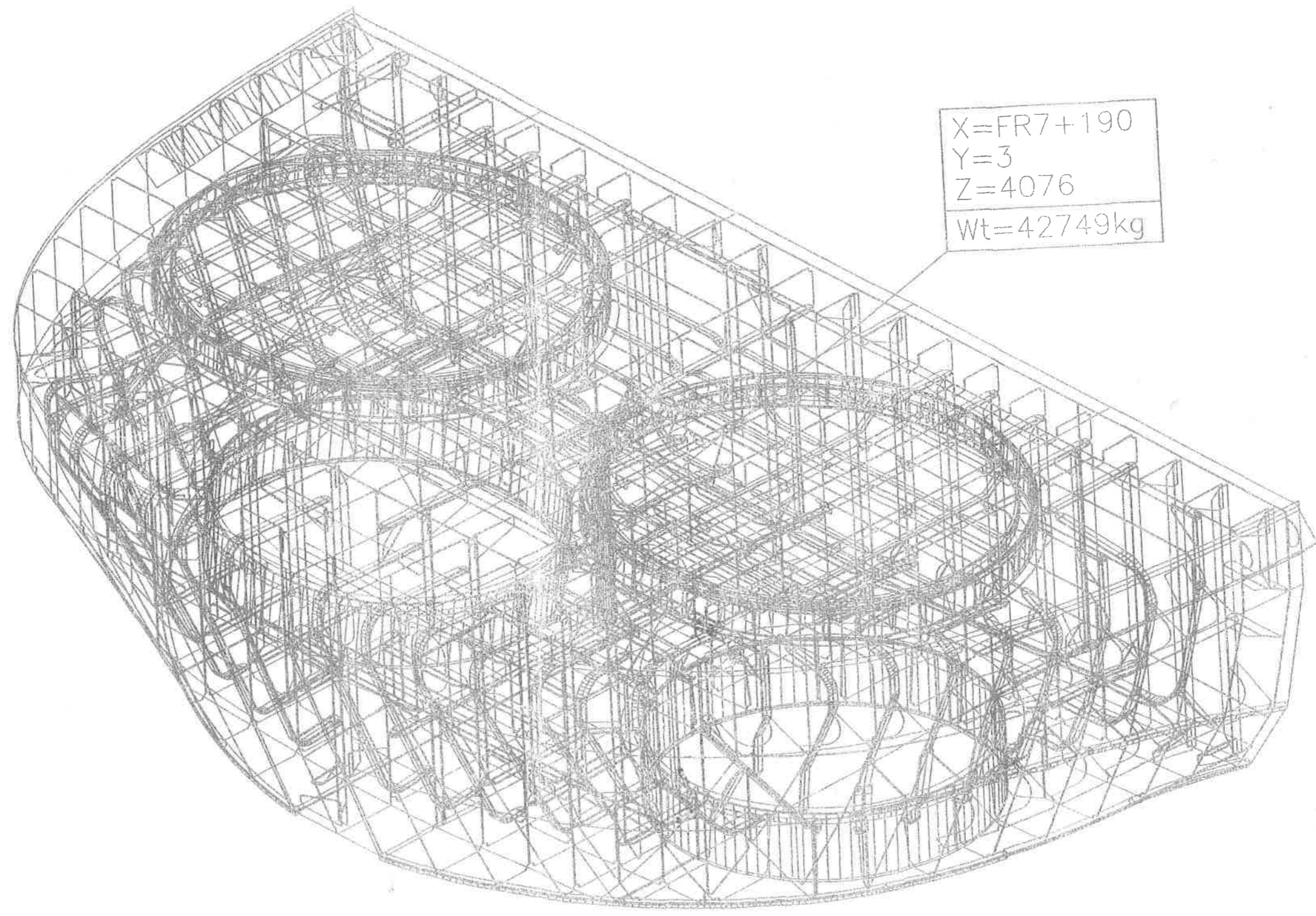
FRAME 39
(AFT-VIEW)



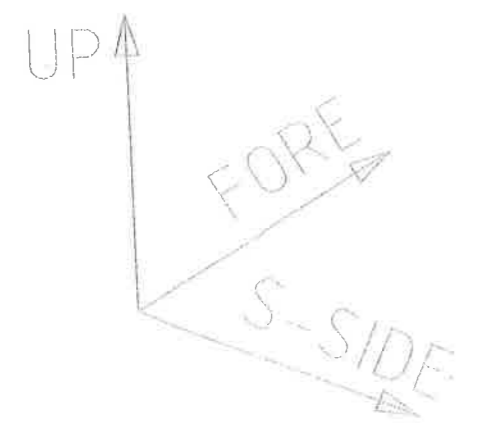
HULL NO. 159	DWG. NO. 000.02.B02	SCALE 1:50	REVISION	SHEET 24 OF 2
ASSEMBLY DRAWING B02				

UP
S. SIDE

LIFTING INFORMATION

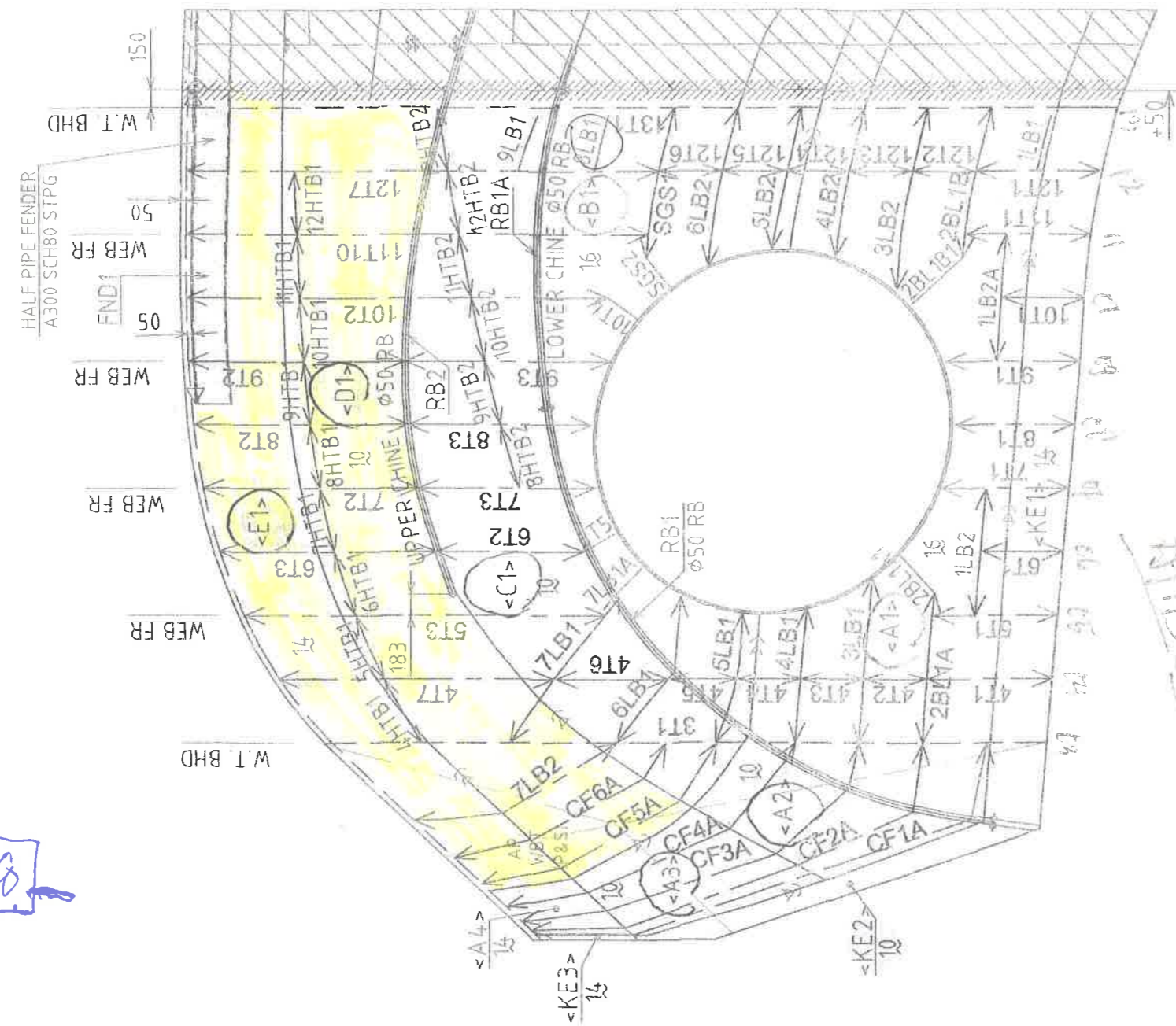


X=FR7+190
Y=3
Z=4076
Wt=42749kg



DWG. TITLE				
ASSEMBLY DRAWING B01				
HULL NO.	DWG. NO.	SCALE	REVISION	DATE
159	001.102.001	1:10	01.13.05	2005

SHELL EXPANSION



Handwritten note: AHS - Bottom = B1



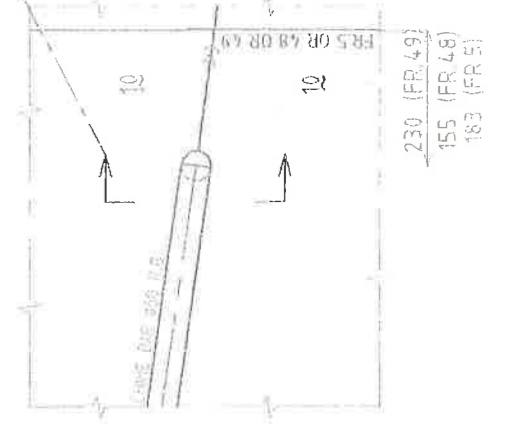
FRAME SPACE 550

WEB FRAME 500x10/100x12 FB(T)

BTM GIRDER 700x10/150x16 FB(T)

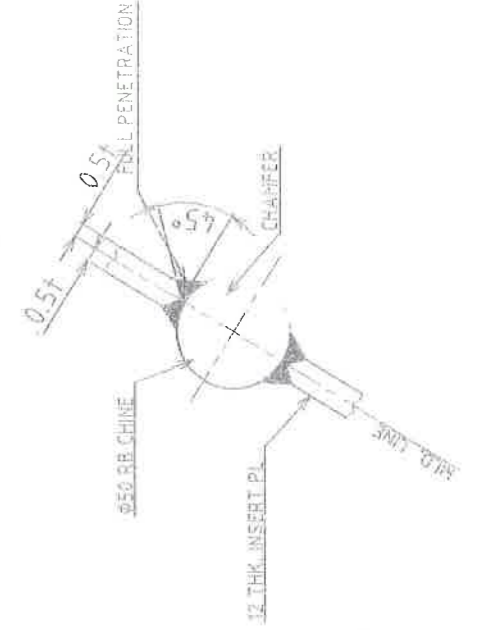
CHINE END DET.

NOT TO SCALE (TYP)



SECTION

NOT TO SCALE (TYP)



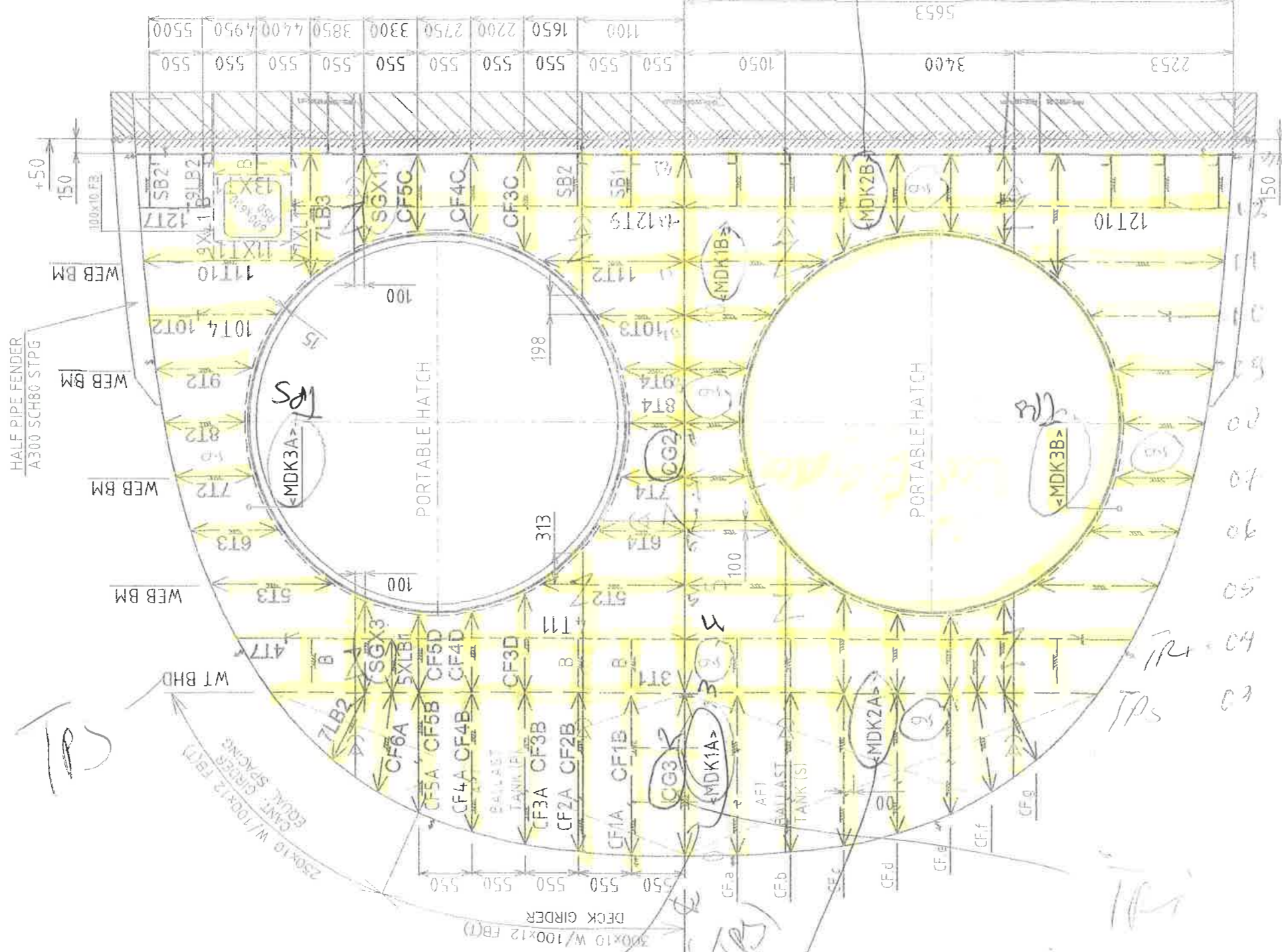
Handwritten note: Info

Handwritten note: B01 - KE2A

DWG. TITLE				
ASSEMBLY DRAWING B01				
HULL NO.	DWG. NO.	SCALE	REVISION	SHEET
159	000.102.501	1:50	12/3/45	3 OF 25

MAIN DECK (UP-VIEW)

← S. SIDE
→ FORE



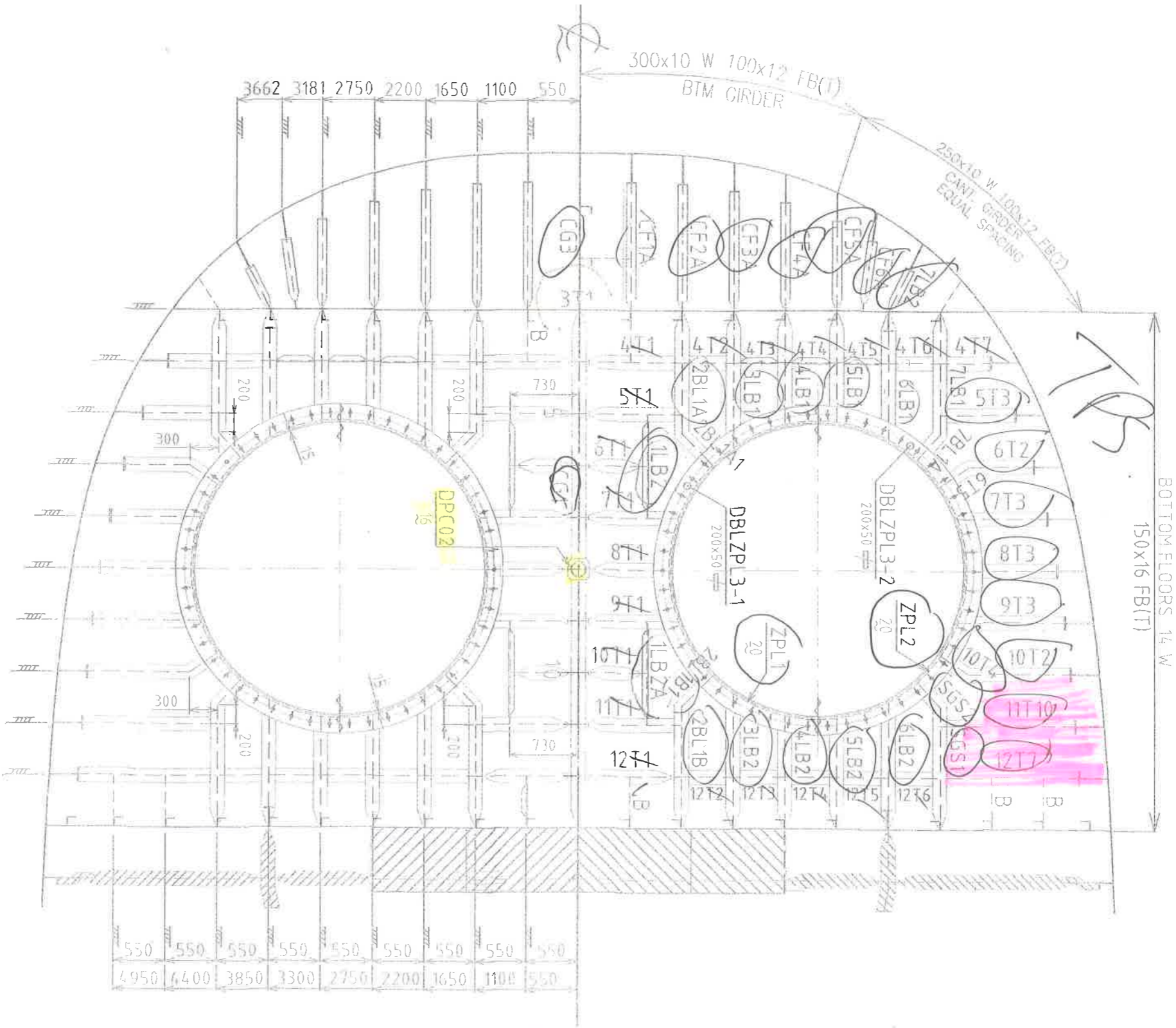
FRAME SPACE	550
DECK PLATE	9 EXCEPT AS SHOWN
DECK CENTER GIRDER	400x10/100x12 FB (T)
DECK SIDE GIRDER	300x9/100x10 FB (T)
WEB FRAME	500x10/100x12 FB(T)
DECK BEAM	100 x 100 x 8 A

DWG. TITLE				
ASSEMBLY DRAWING B01				
HULL NO.	DWG NO.	SCALE	REVISION	SHEET
159	000.102.B01	1:50	1 2 3 4 5	4 OF 21

BOTTOM FLOOR

(UP - VIEW)

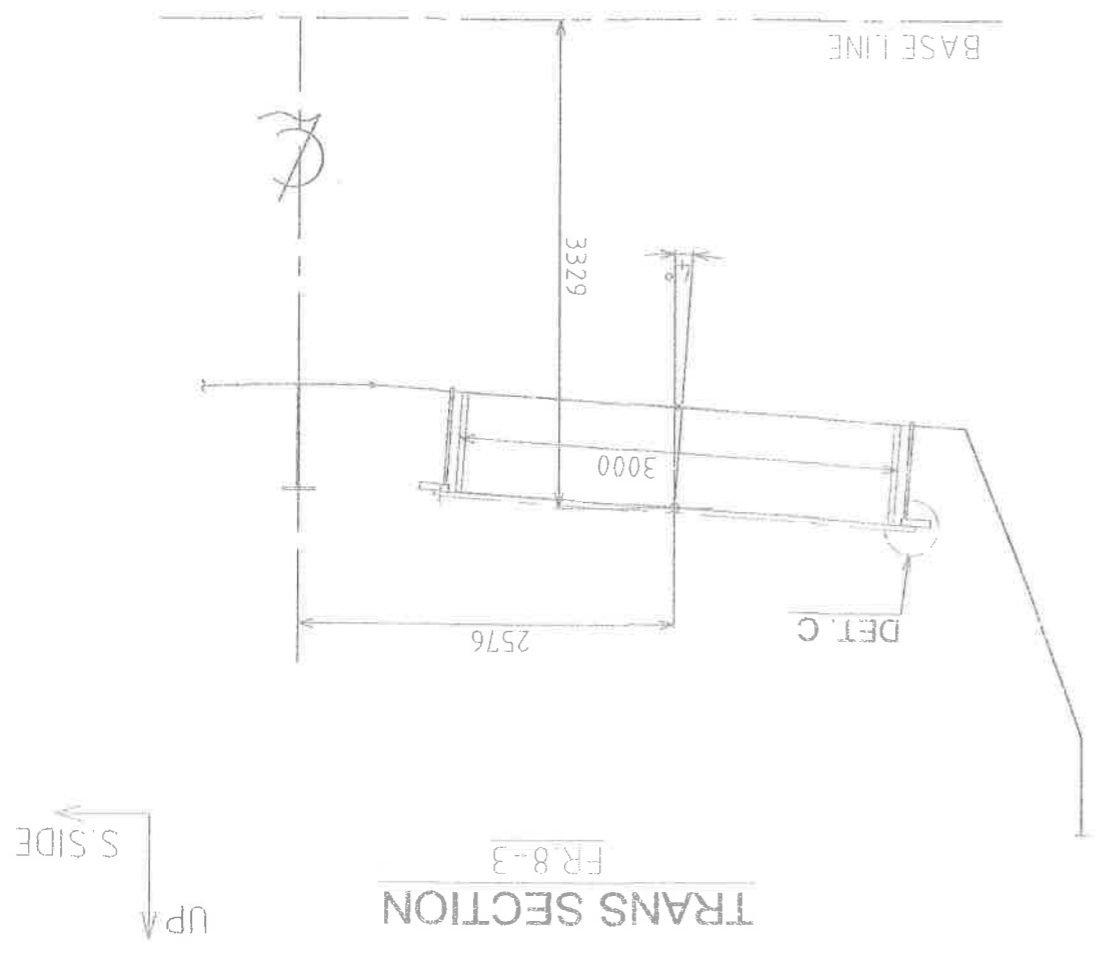
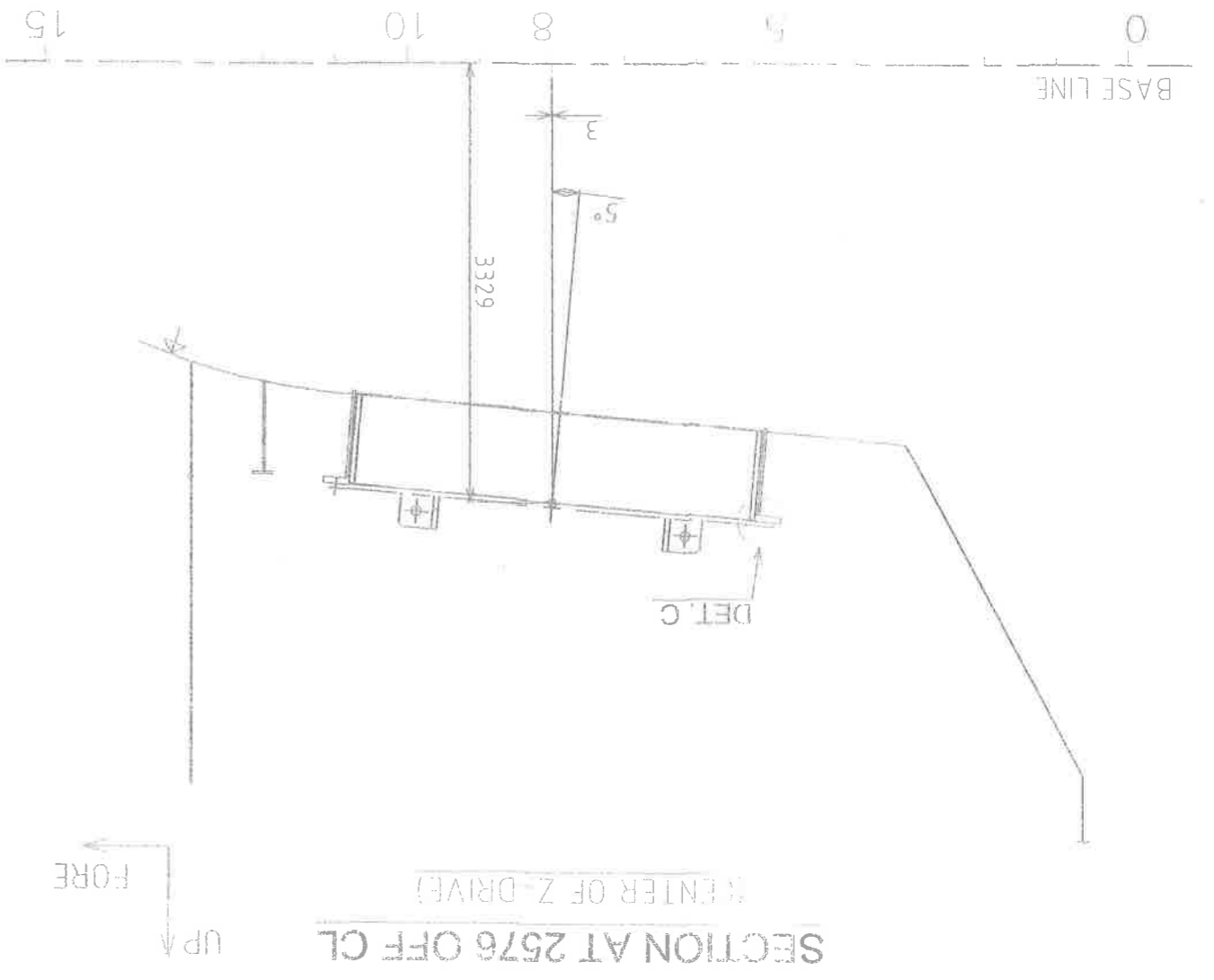
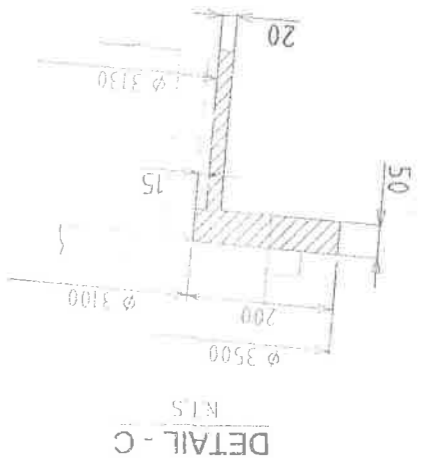
AS SIDE
→ FORE



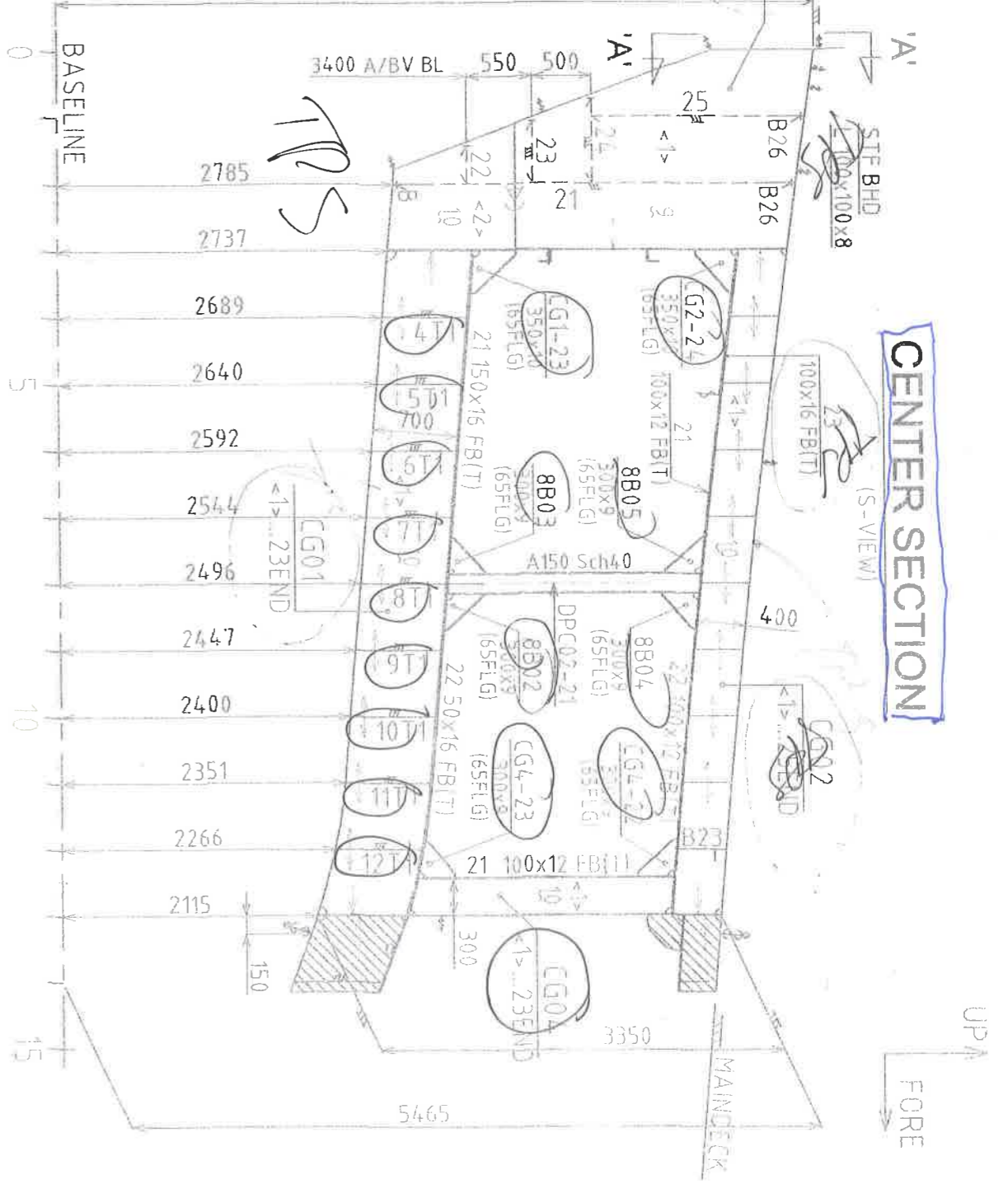
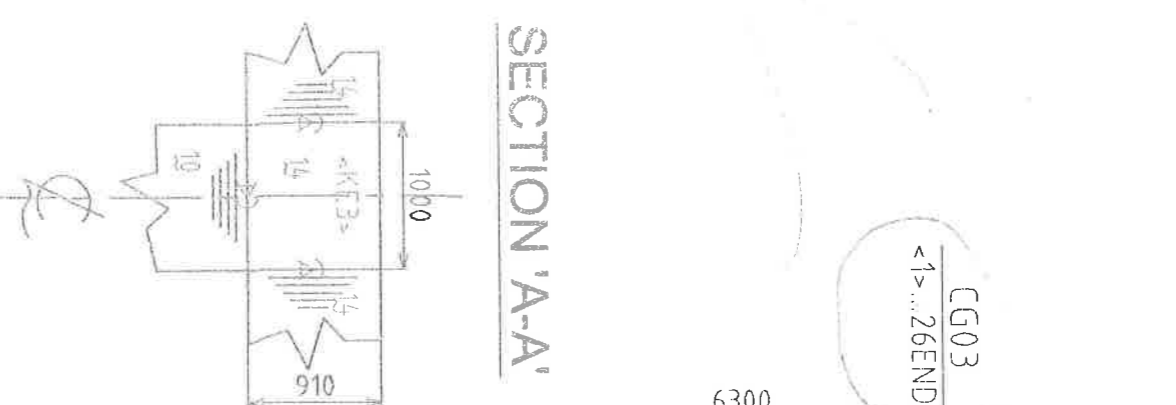
FRAME SPACING 550
BOTTOM FLOOR 14 / 150x16 FB(T) EXCEPT AS SHOWN
BOTTOM GIRDER 14 / 150x16 FB(T)

ASSEMBLY DRAWING B01		
DWG. TITLE	DWG. NO.	SCALE
HULL NO. 159	000.102.B01	1:50
REVISION	DATE	SHEET
12345		5 OF 21

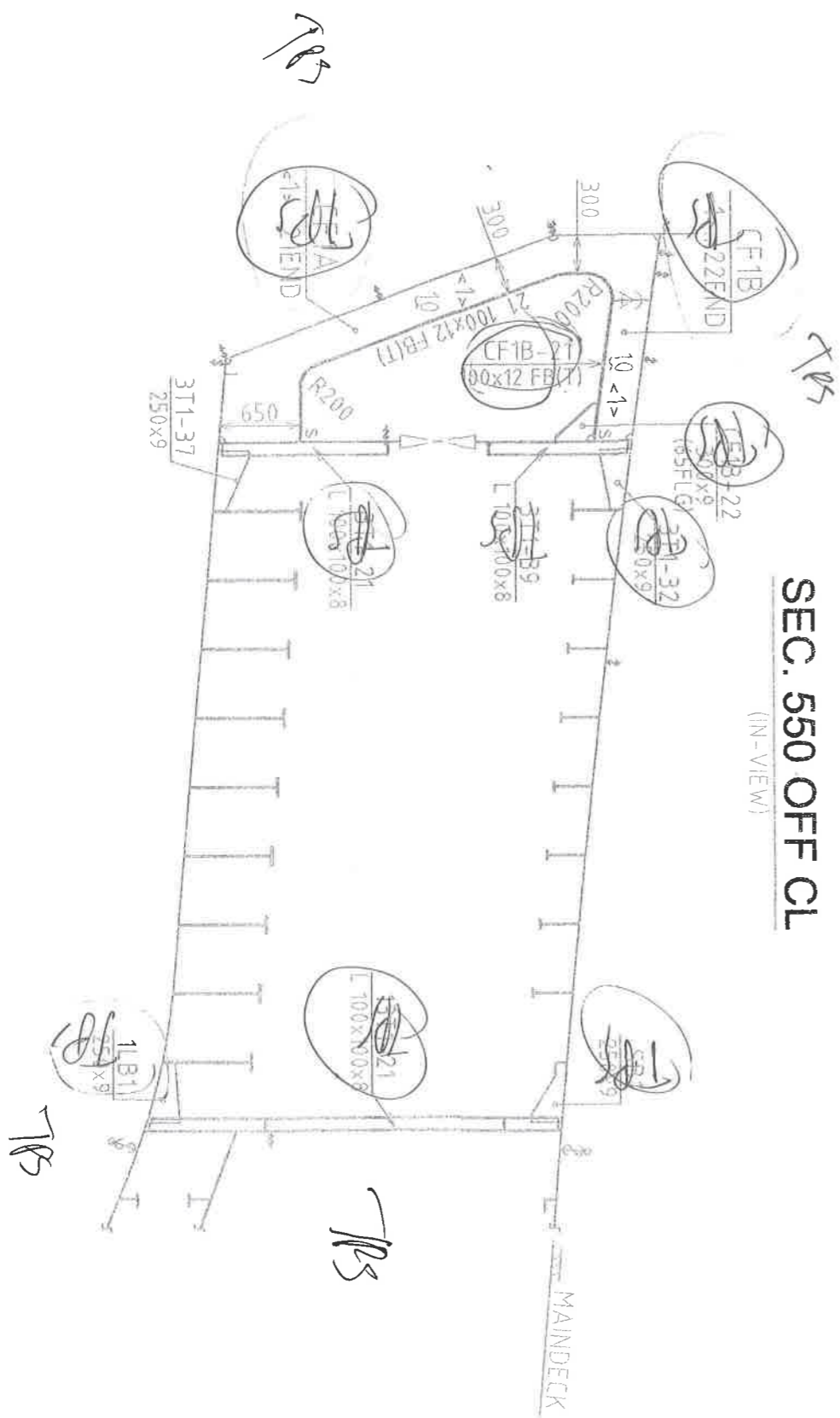
DWG. TITLE	ASSEMBLY DRAWING B01				
HULL NO.	159	DWG. NO.	000.102.B01	SCALE	1:50
REVISION	1/2/45	SHEET	6 OF 21		



HULL NO. 159		DWG. TITLE
DWG. NO. 000.102.B01		ASSEMBLY DRAWING B01
SCALE 1:50	REVISION	
012345	7 OF 21	
SHEET		

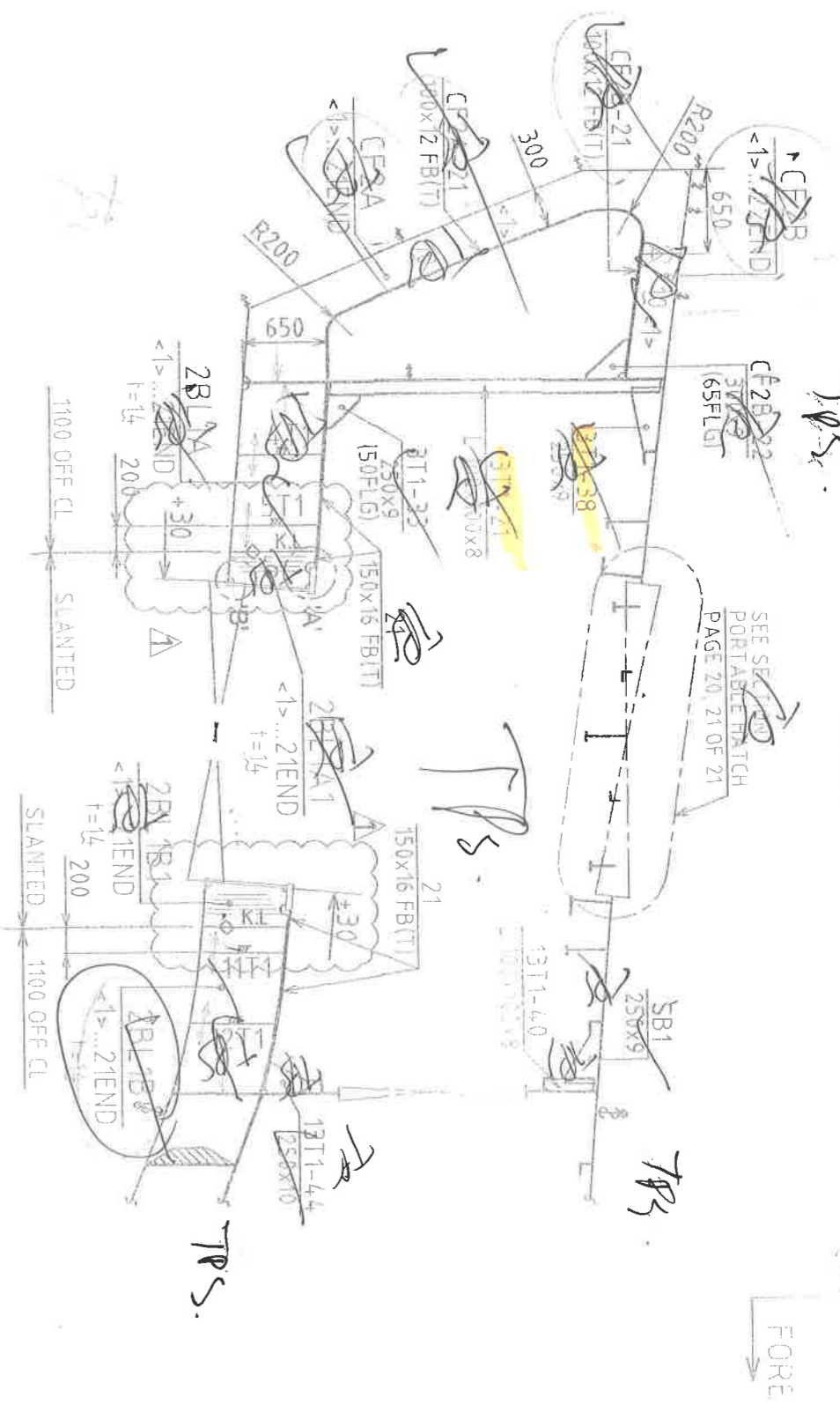


SEC. 550 OFF CL
(IN-VIEW)



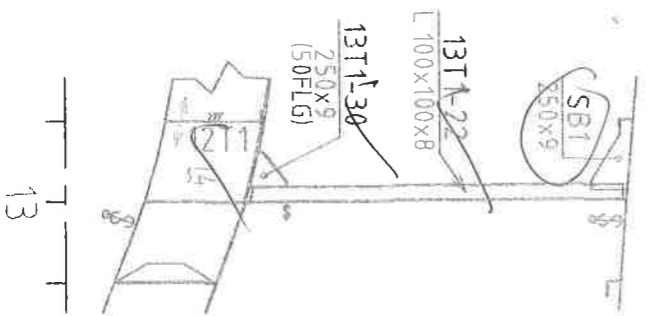
SEC. 1100 OFF CL (P)

(IN-VIEW)



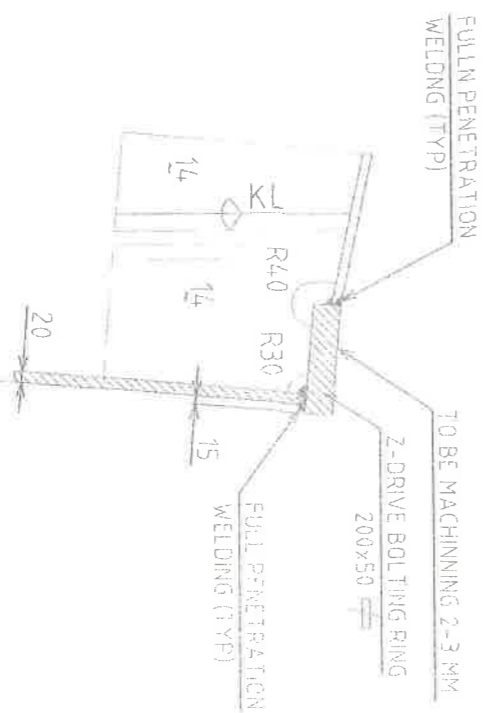
SEC. 1100 OFF CL (S)

(IN-VIEW)



DETAIL - A (TYP.)

NTS



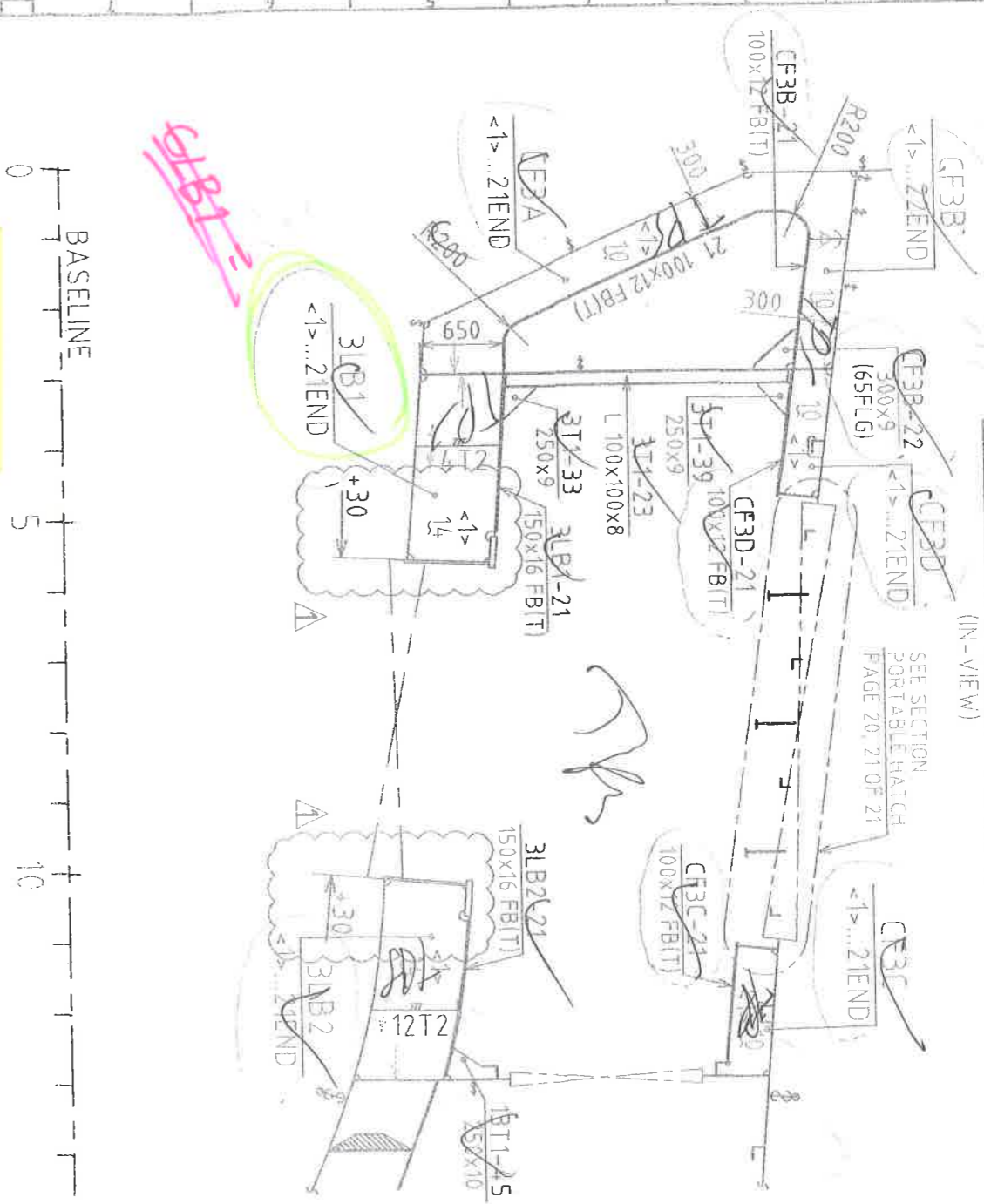
DETAIL - B (TYP.)

NTS

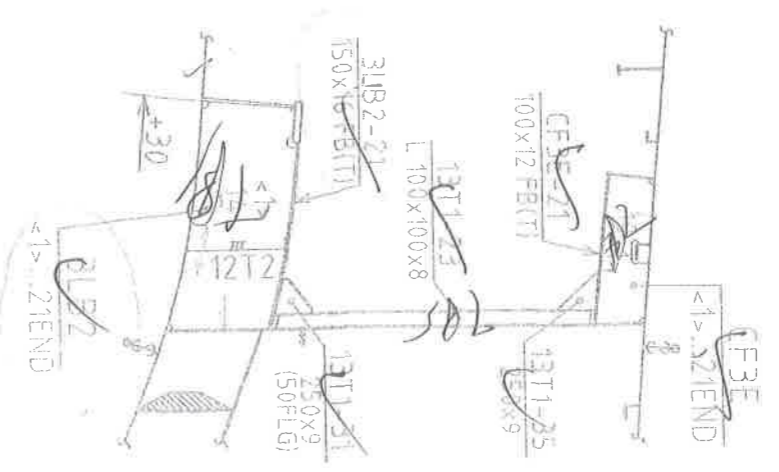


DWG. TITLE		ASSEMBLY DRAWING B01	
HULL NO.	DWG NO.	SCALE	REVISION
159	000.102.B01	1:50	002345
SHEET		8 OF 21	

SEC. 1650 OFF CL (P)
(IN-VIEW)

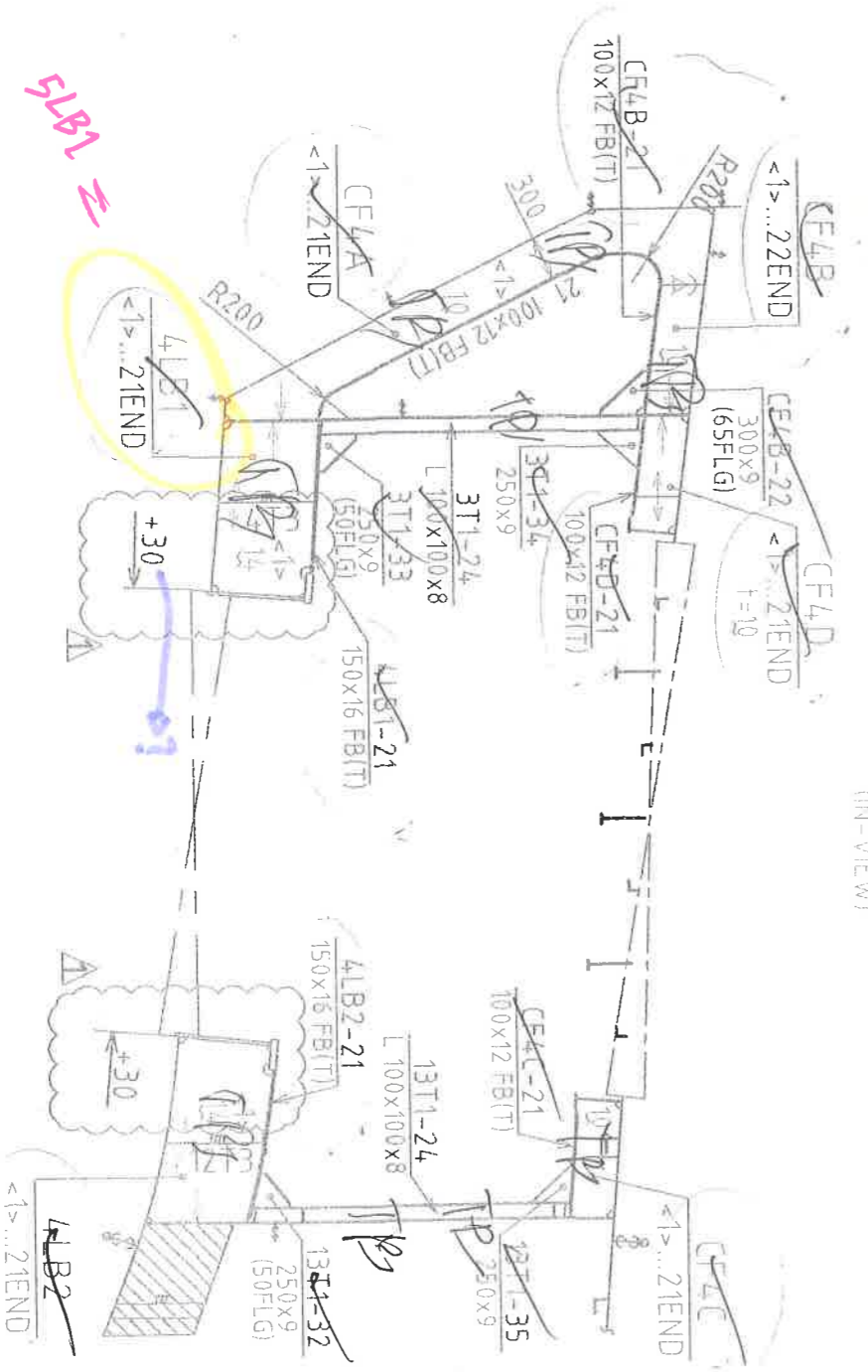


SEC. 1650 OFF CL (S)
(IN-VIEW)

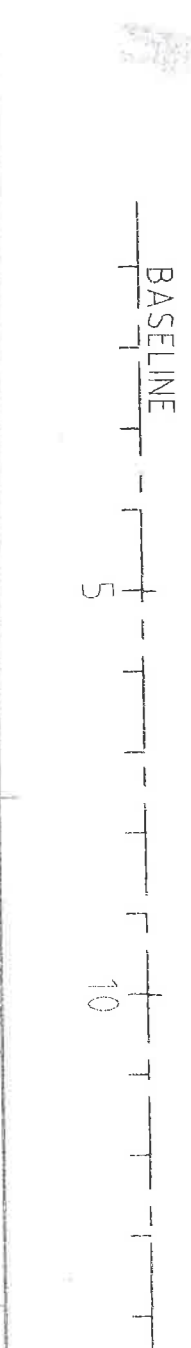


ukur diameter
mengukur di
MD VIEW
hampir sama
di CL VIEW

SEC. 2200 OFF CL
(IN-VIEW)



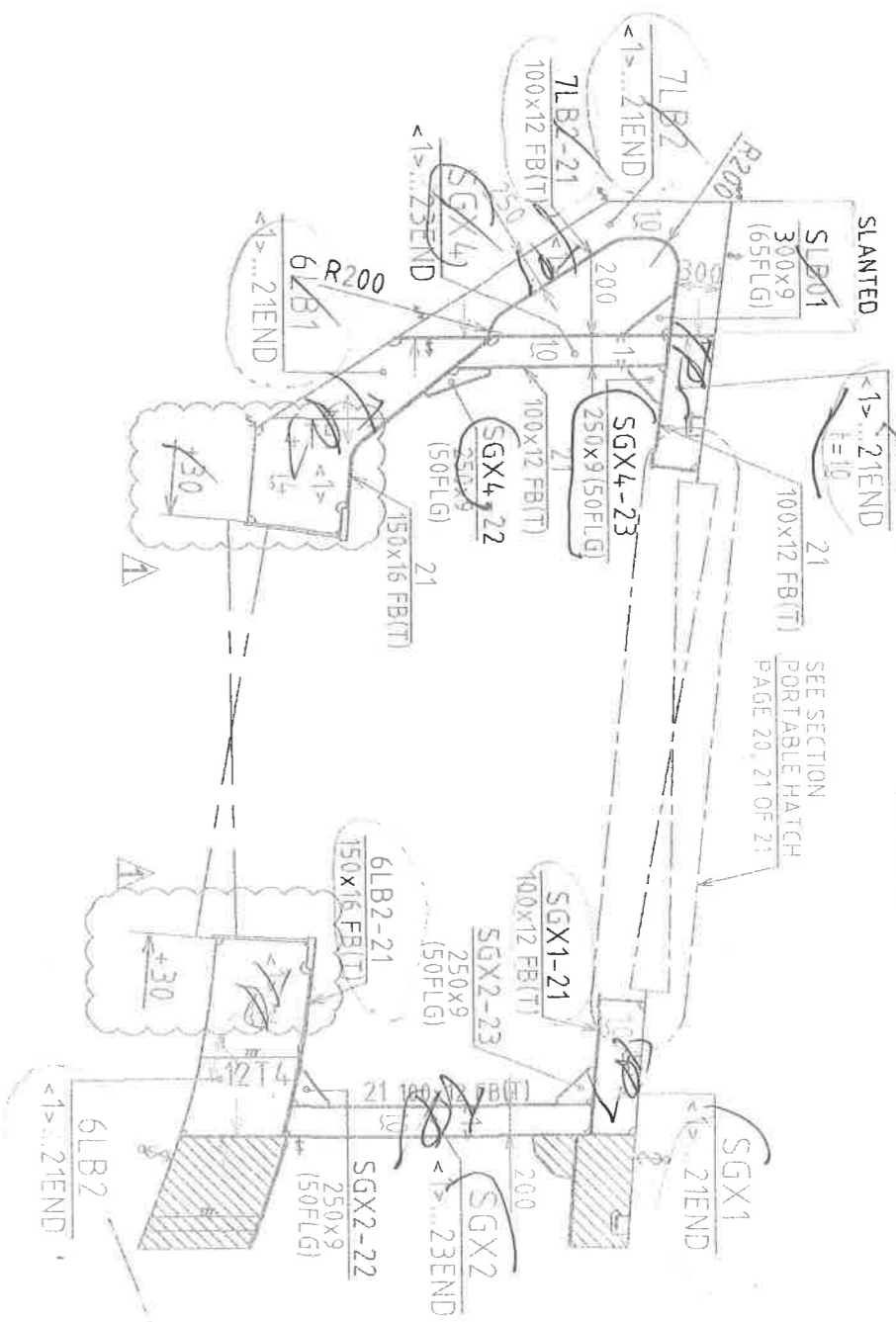
ukur diameter
mengukur di
MD VIEW
hampir sama
di CL VIEW



UP
FORE

SEC. 3300 OFF CL

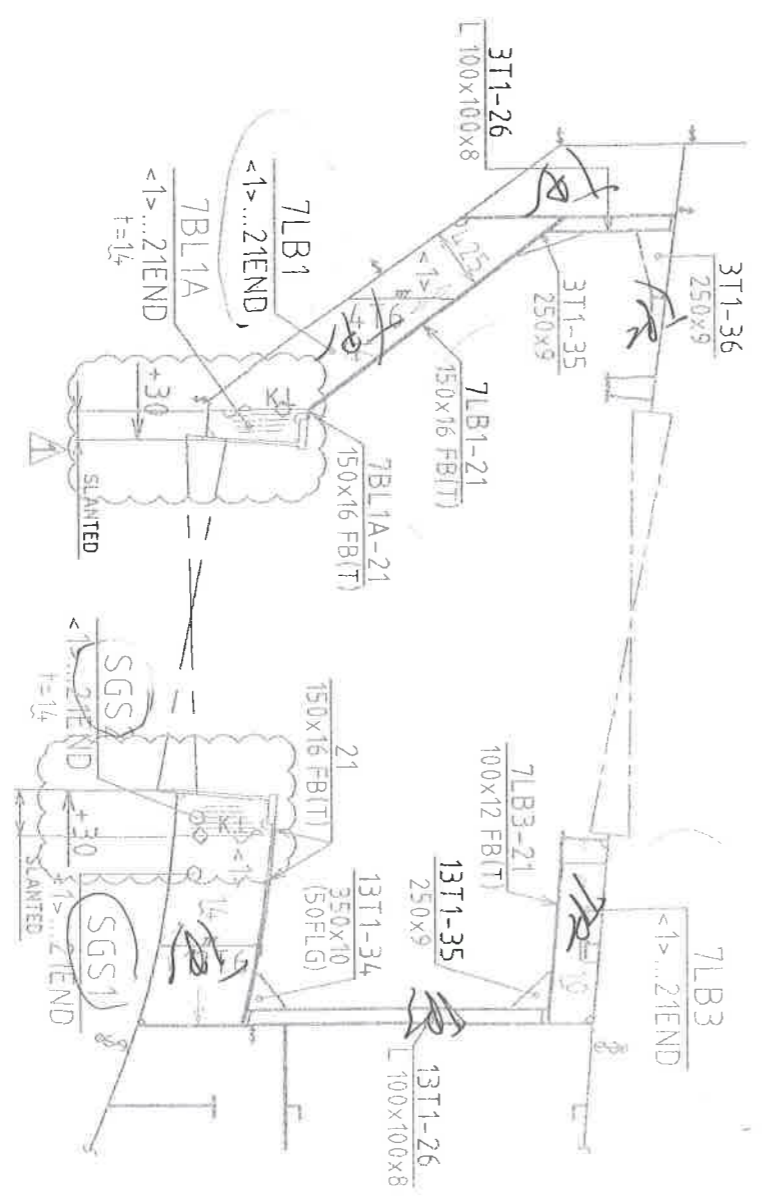
(IN-VIEW)



BASELINE
5 10

SEC. 3850 OFF CL

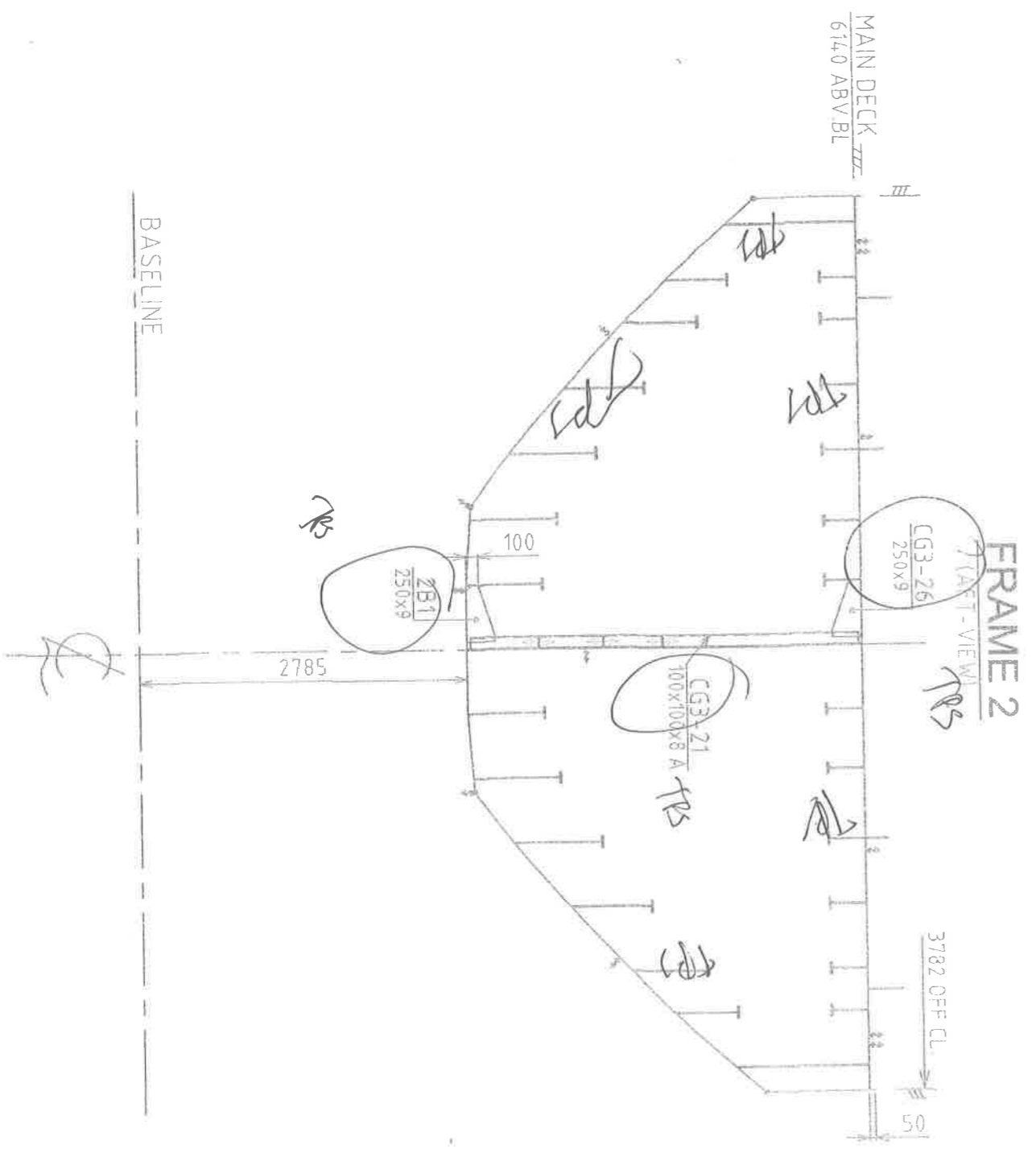
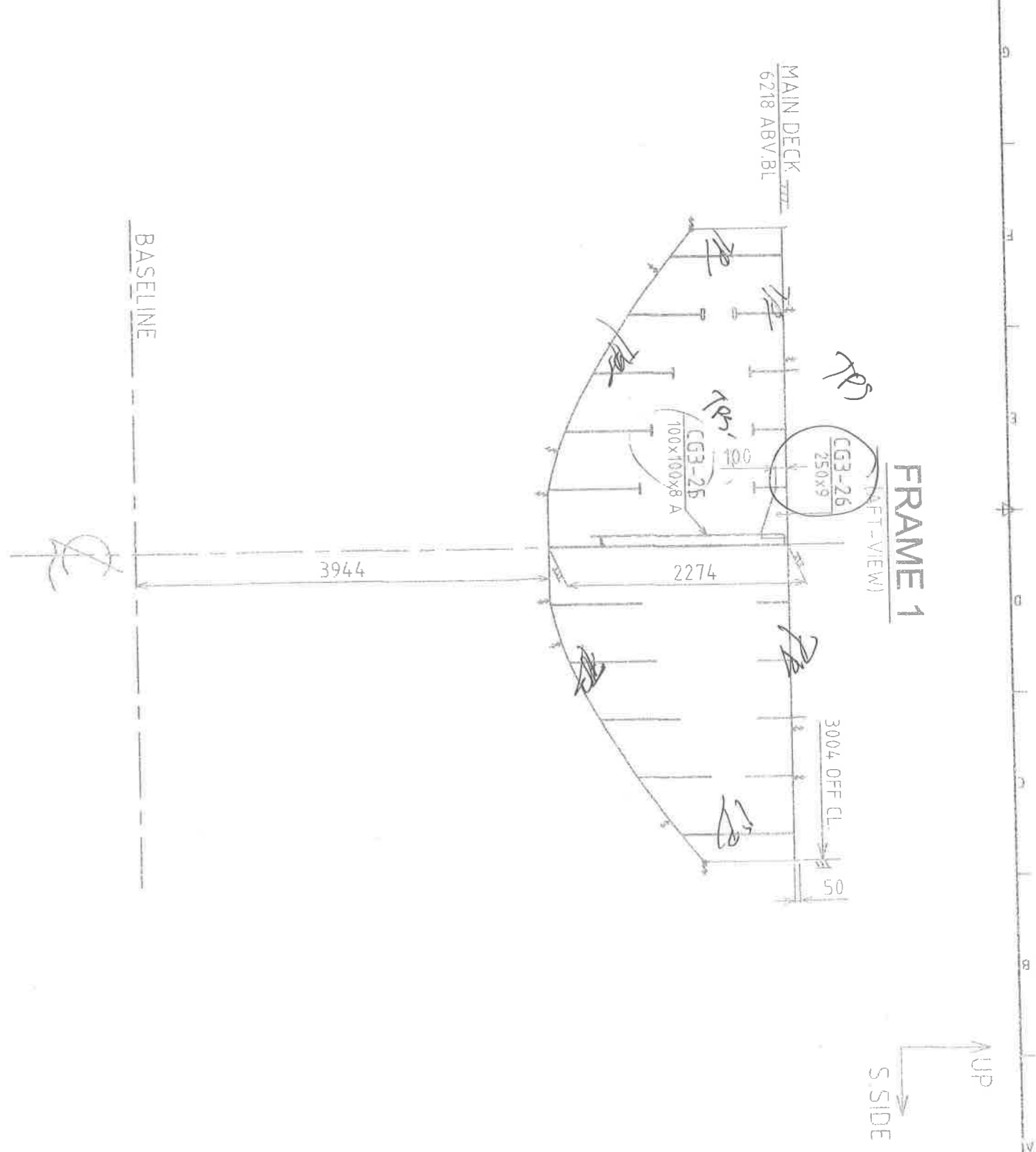
(IN-VIEW)



BASELINE
5 10

DWG. TITLE	
ASSEMBLY DRAWING B01	
FILE NO.	159
DWG NO.	000.102.B01
SCALE	1:50
REVISION	002 3/4/5
SHEET	11 OF 21

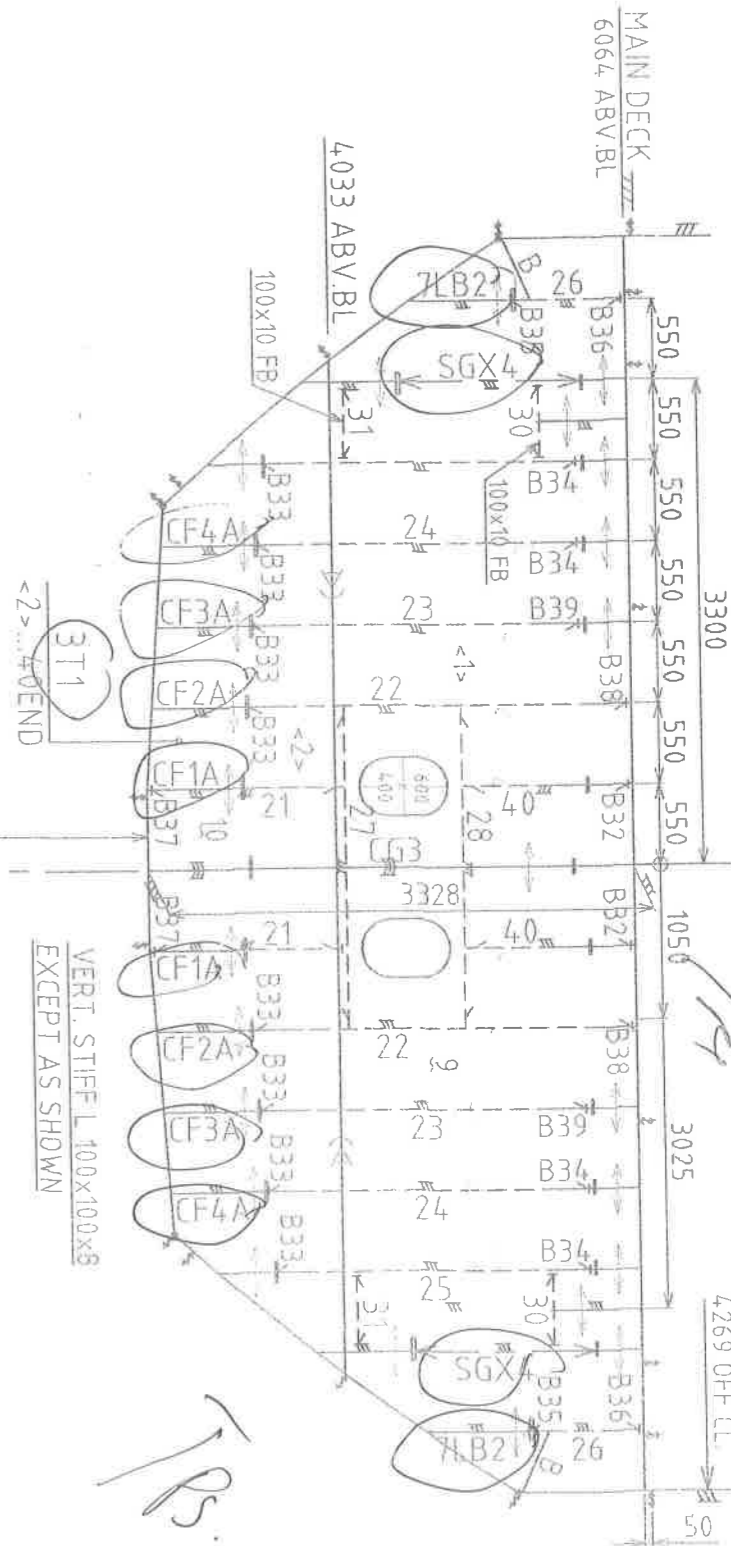
Dwg. Title		ASSEMBLY DRAWING B01	
HULL NO.	DWG NO.	SCALE	REVISION
159	000.02.B01	1:50	12 3 4 5
SHEET		12 OF 21	



FRAME 3
(AFT-VIEW)

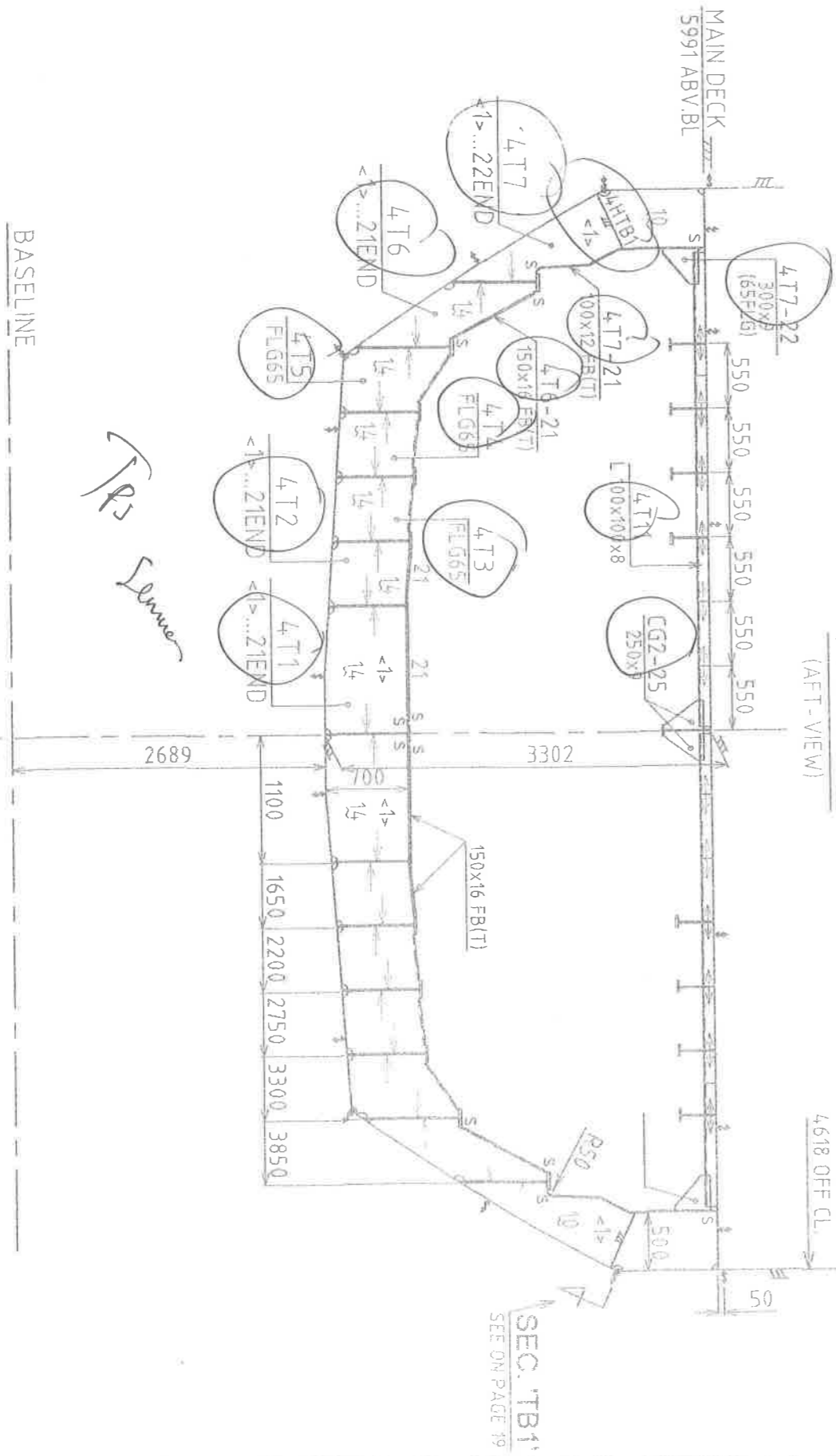
TR

UP
S. SIDE



TR
Seam

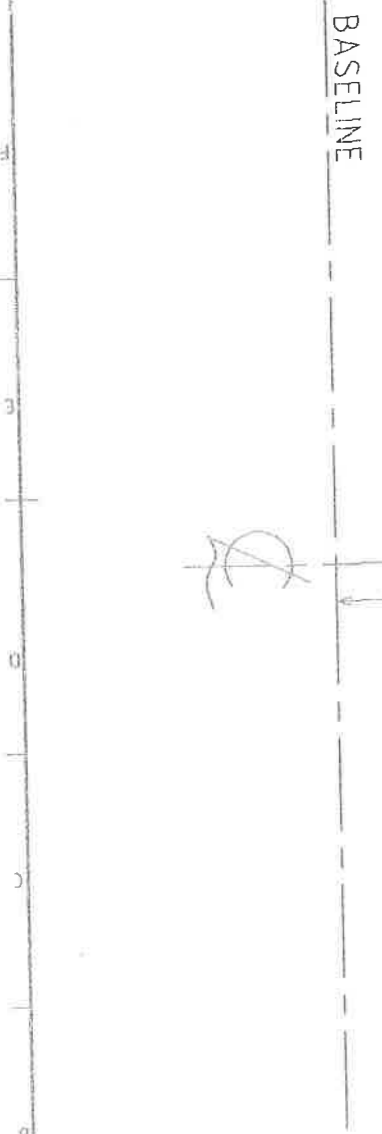
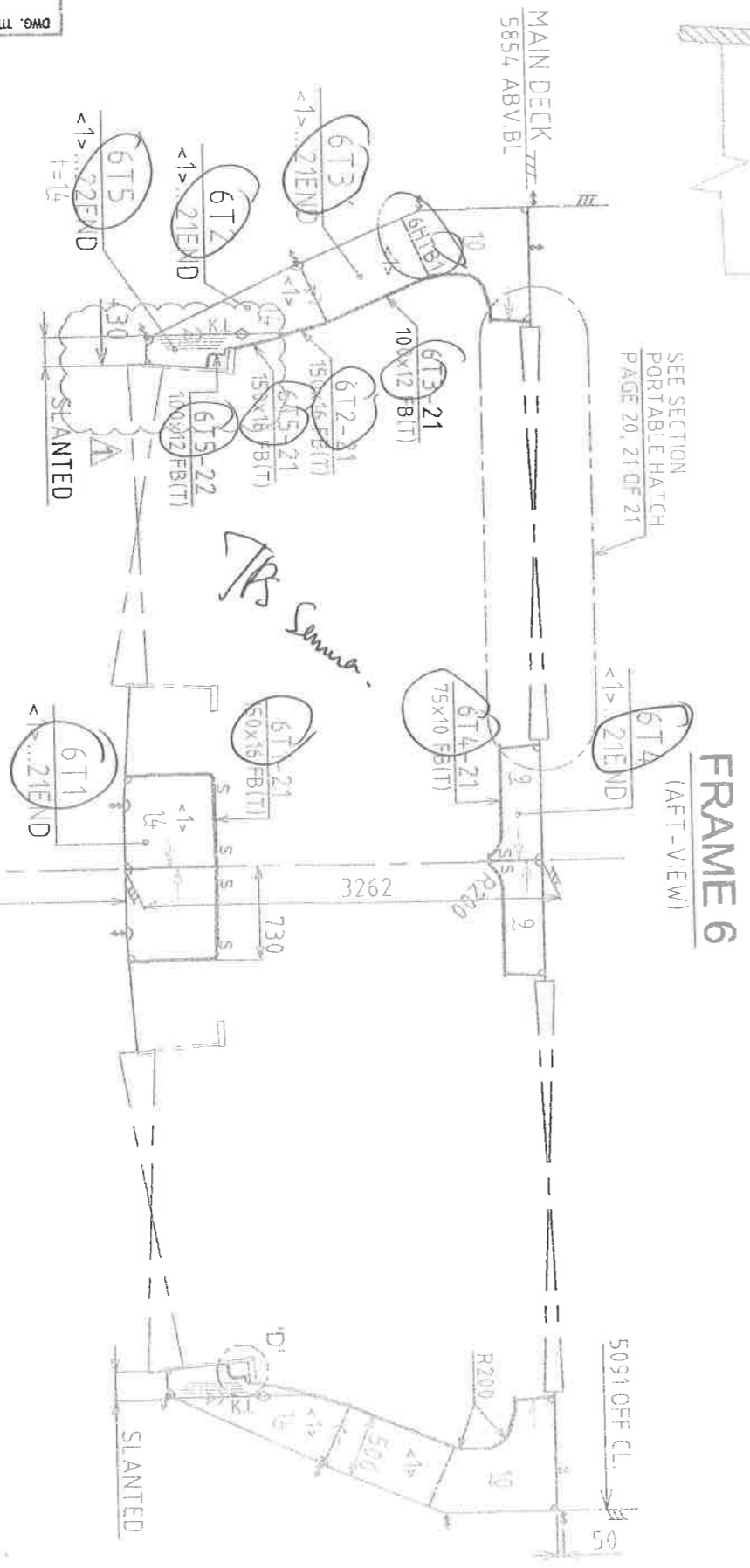
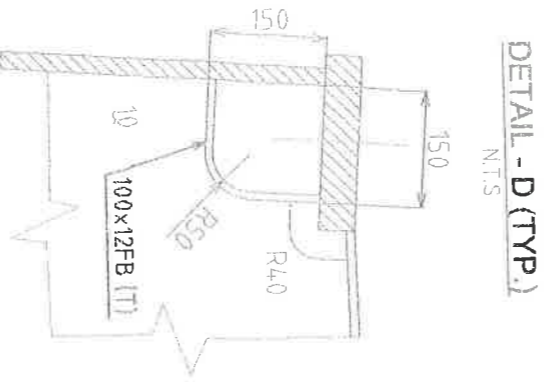
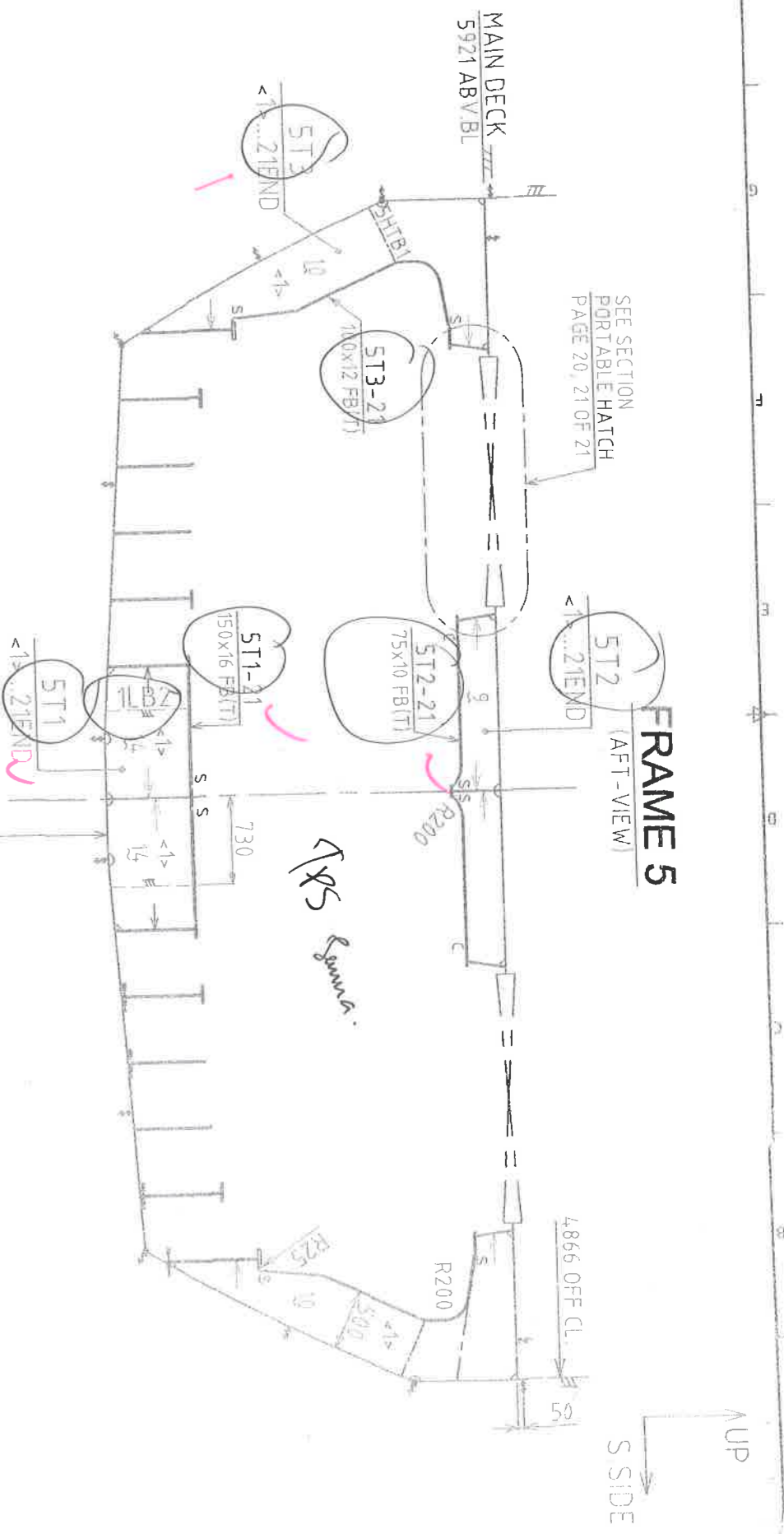
FRAME 4
(AFT-VIEW)



TR
Seam

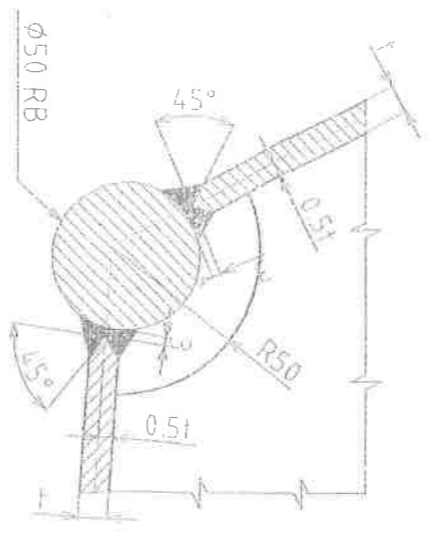
DWG. TITLE ASSEMBLY DRAWING B01	
DWG NO. 000.102.B01	SCALE 1:50
HULL NO. 159	REVISION
SHEET 13 OF 21	

BASELINE

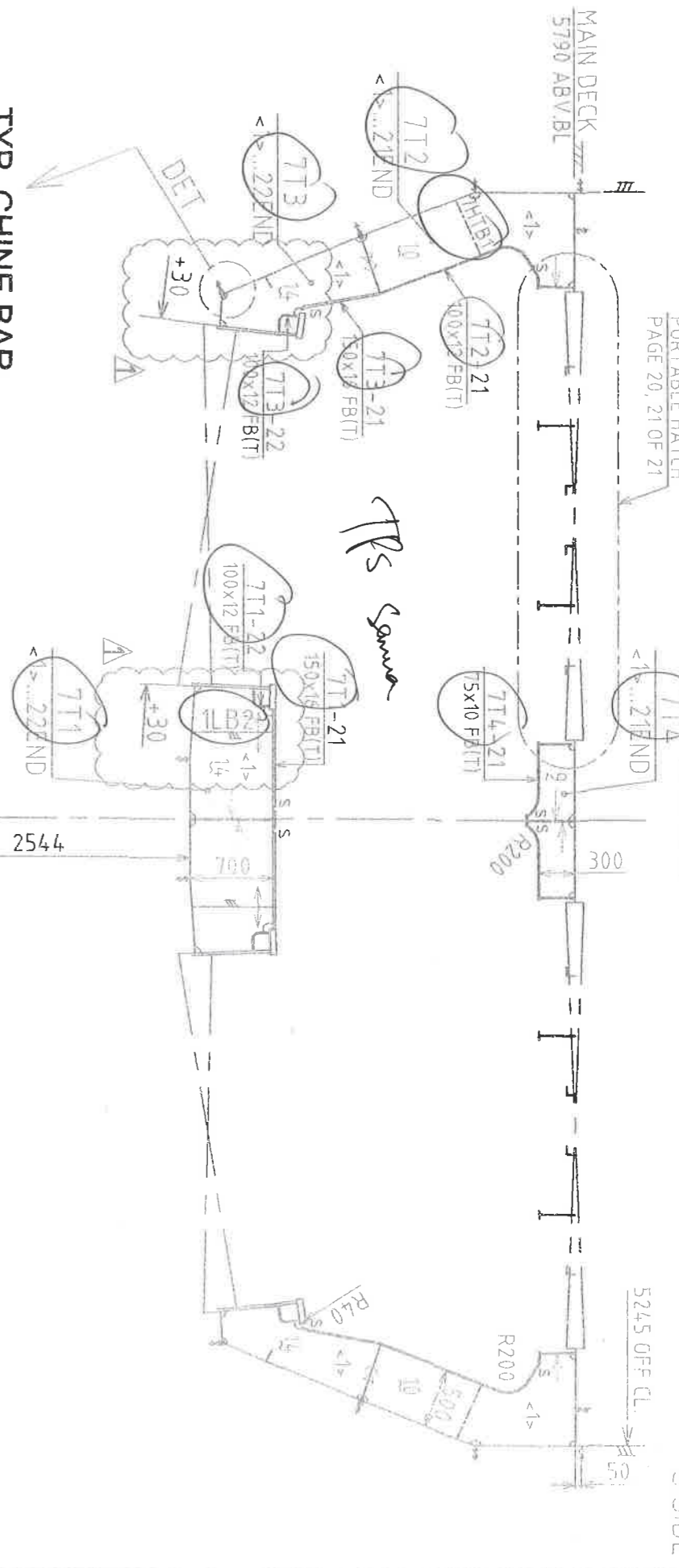


DWG. TITLE	ASSEMBLY DRAWING B01
HULL NO.	159
DWG. NO.	000.102.801
SCALE	1:50
REVISION	REV 1
SHEET	15 OF 21

TYP. CHINE BAR CONNECTION

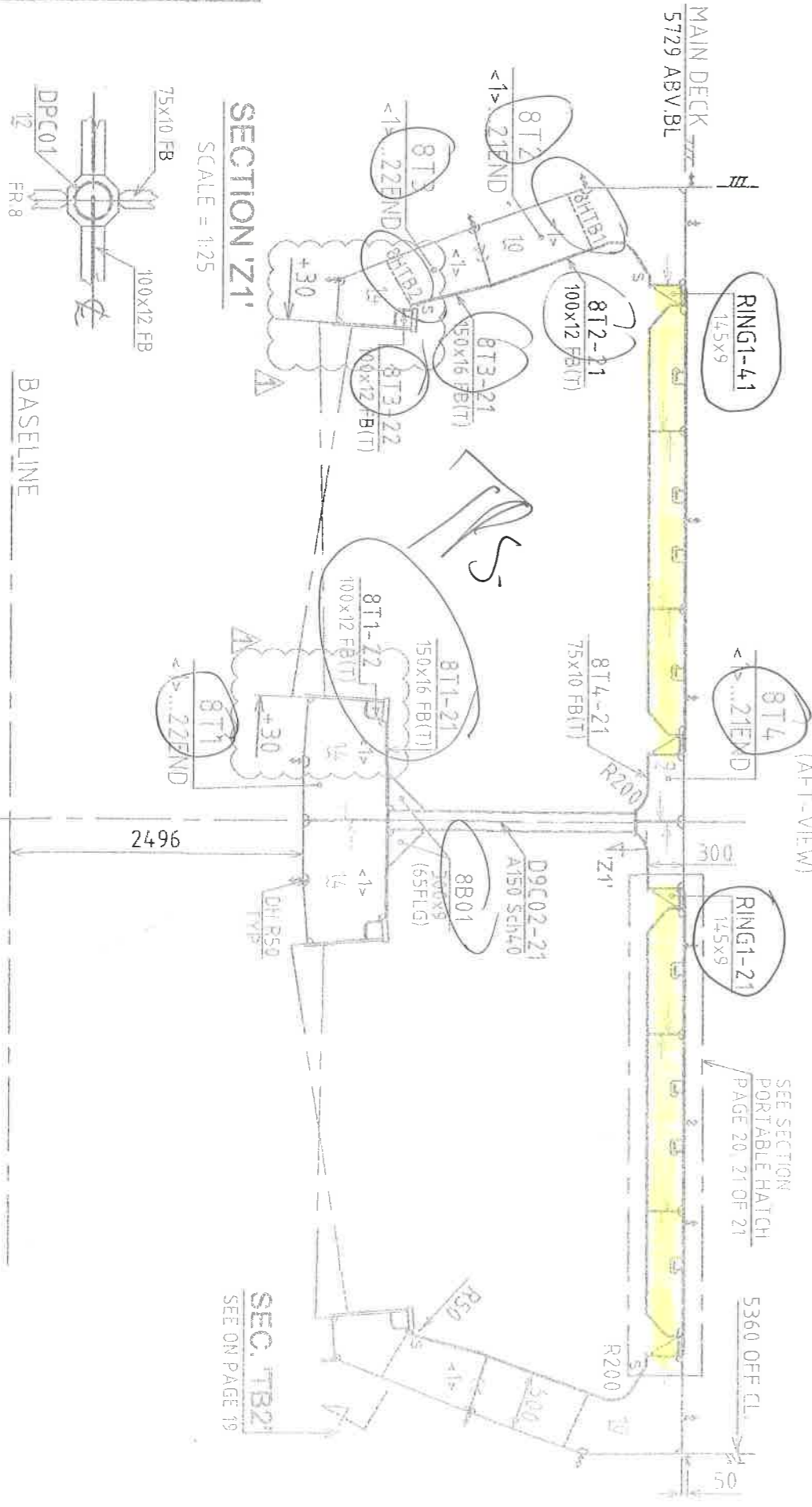


FRAME 7
(AFT-VIEW)

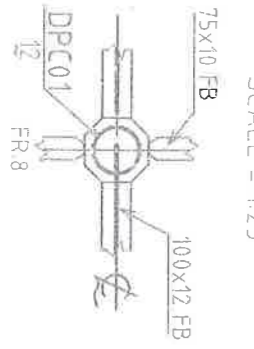


TPS same

FRAME 8
(AFT-VIEW)



SECTION 'Z1'

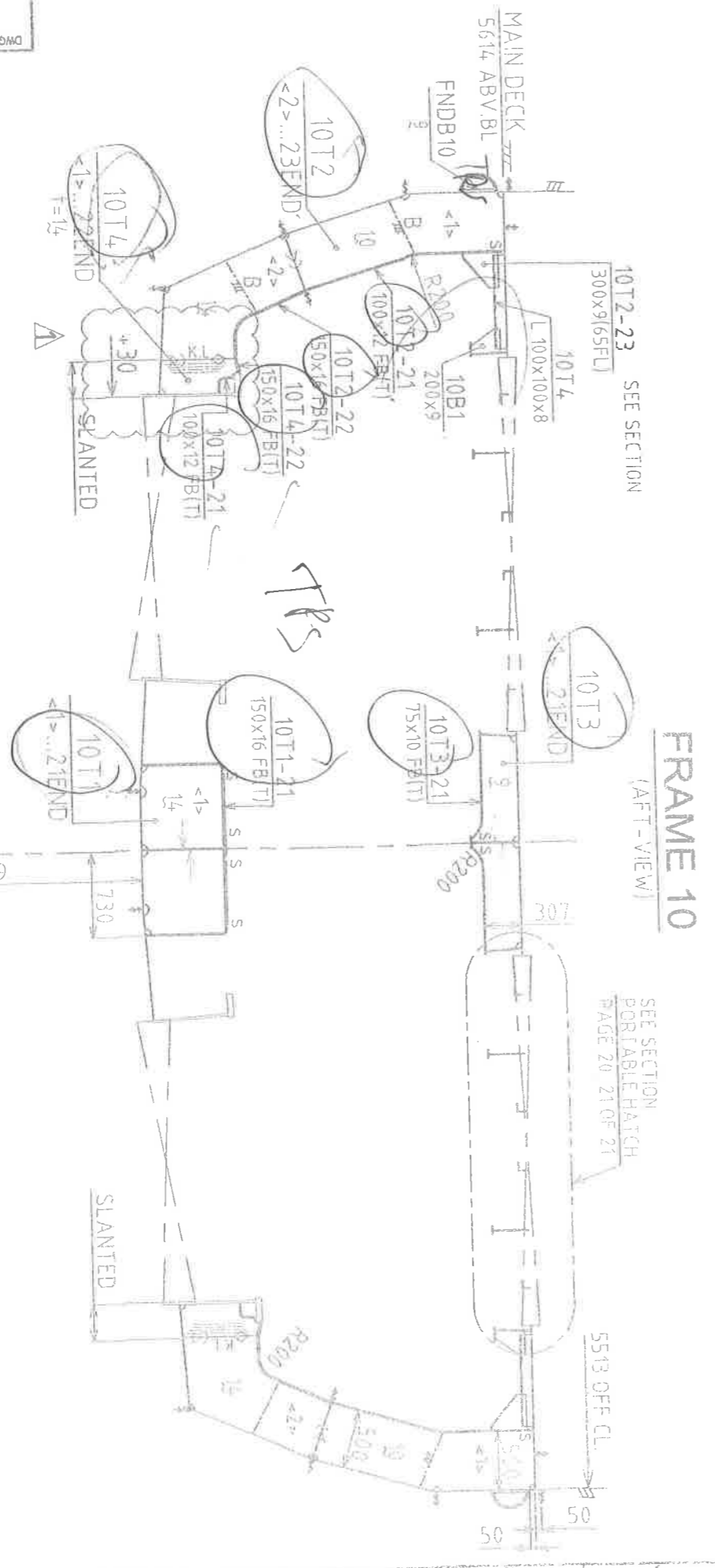
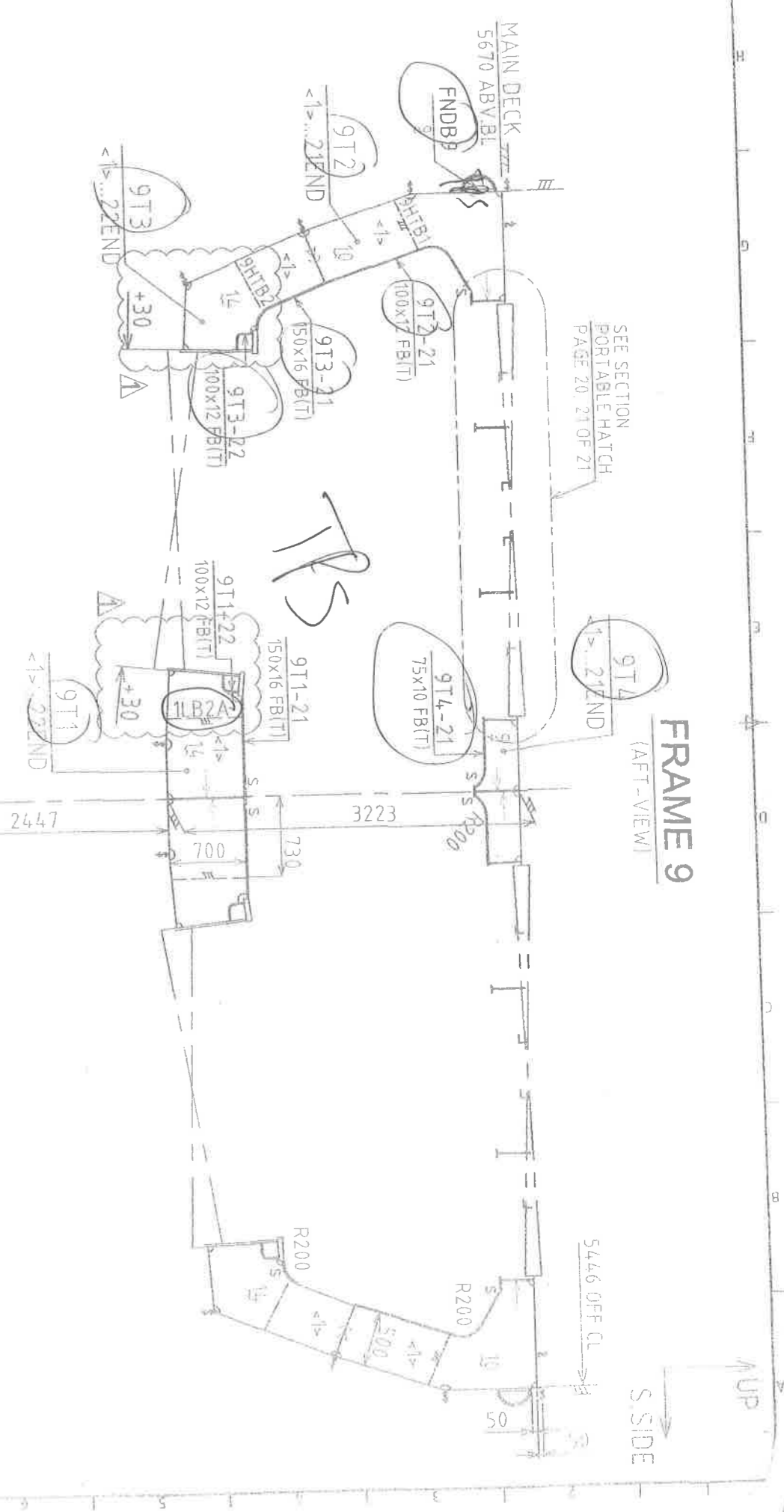


SCALE = 1:25

SEC. TB2: SEE ON PAGE 19

AUP
S SIDE

DWG. TITLE	DWG. NO.	SCALE	REVISION	SHEET
ASSEMBLY DRAWING B01	000.102.B01	1:50	023345	16 OF 21
HULL NO.	159			



BASELINE

BASELINE

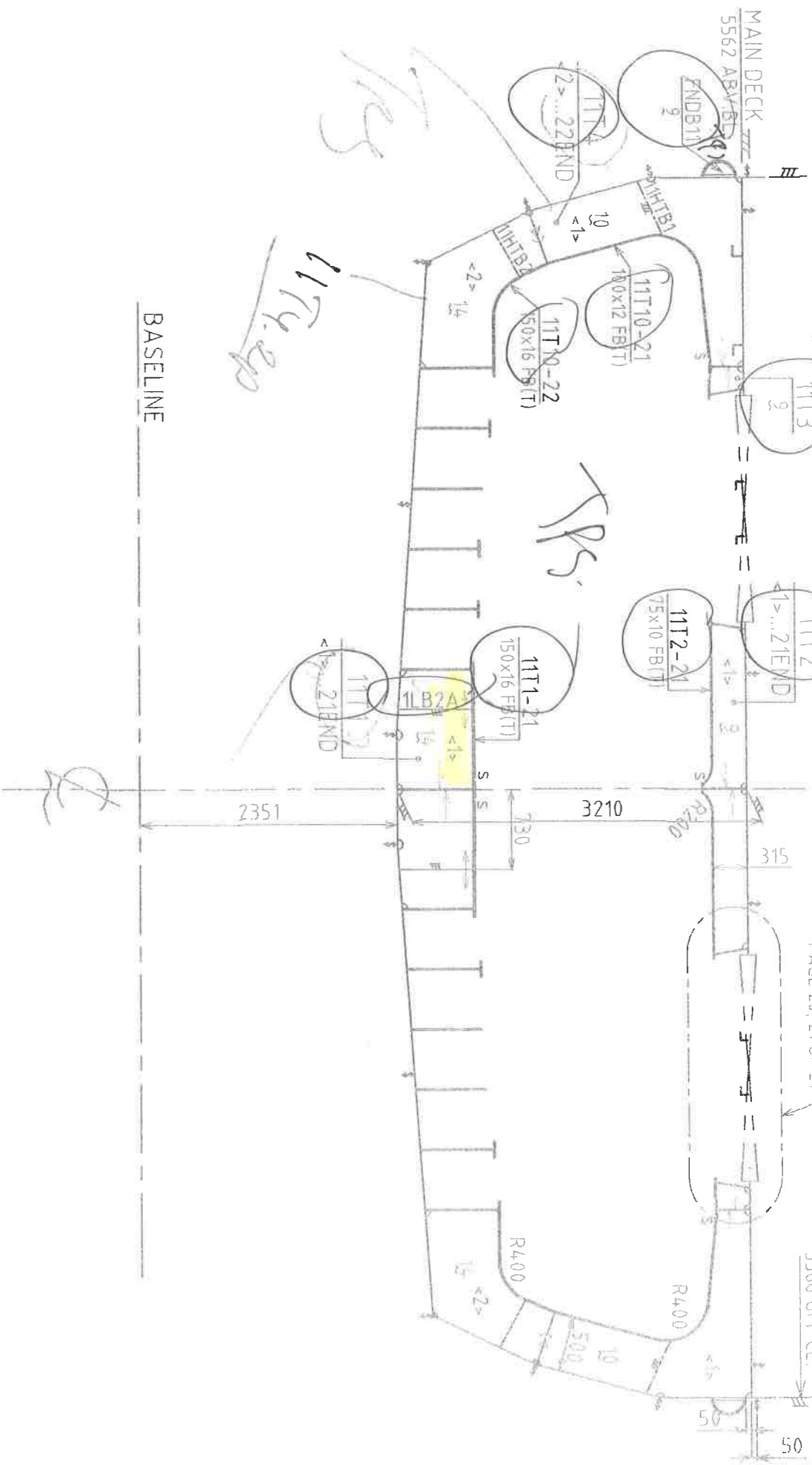
FRS

FRS

FRAME 11

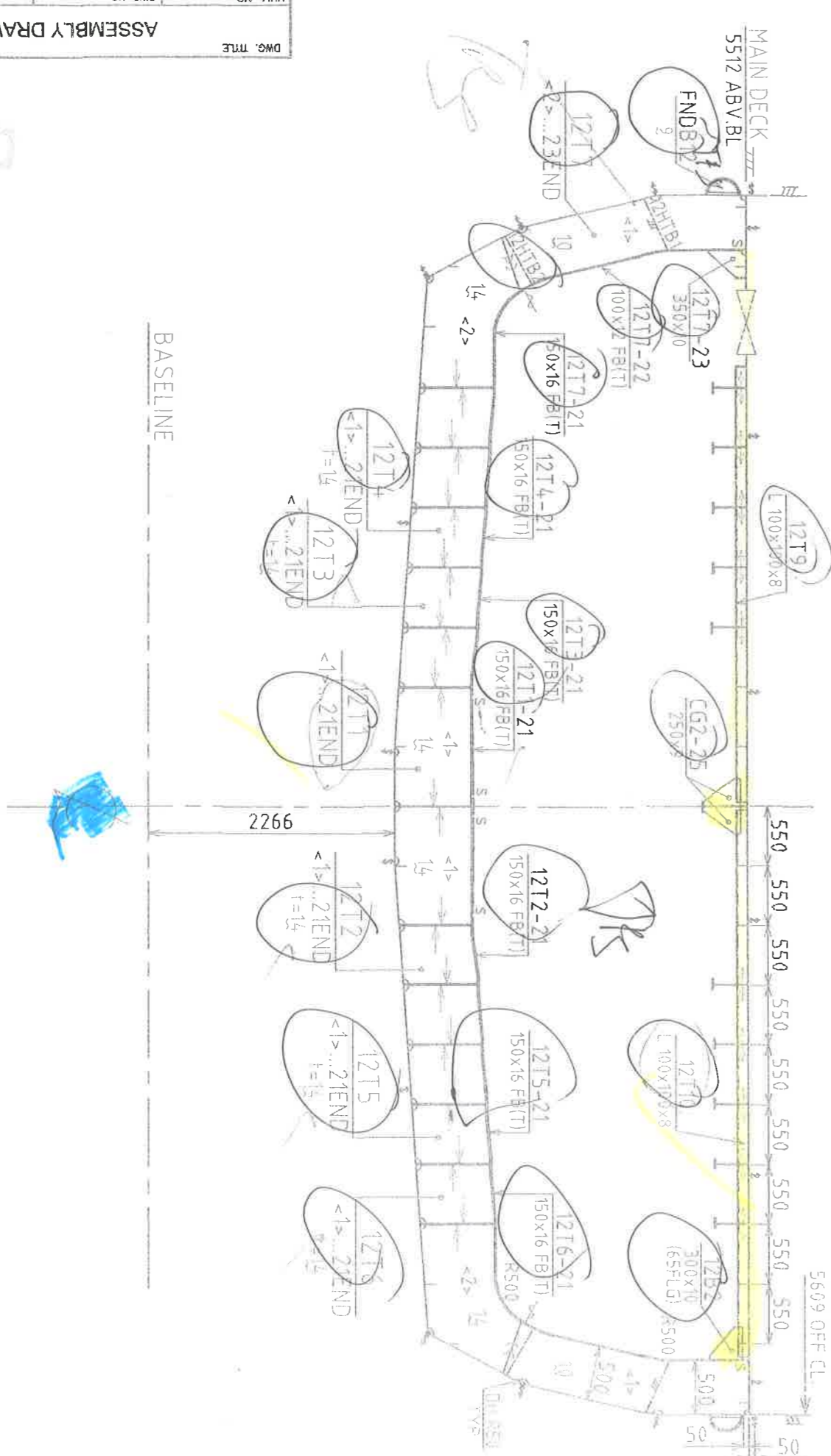
(AFT-VIEW)

SEE SECTION
PORTABLE HATCH
PAGE 20, 21 OF 21



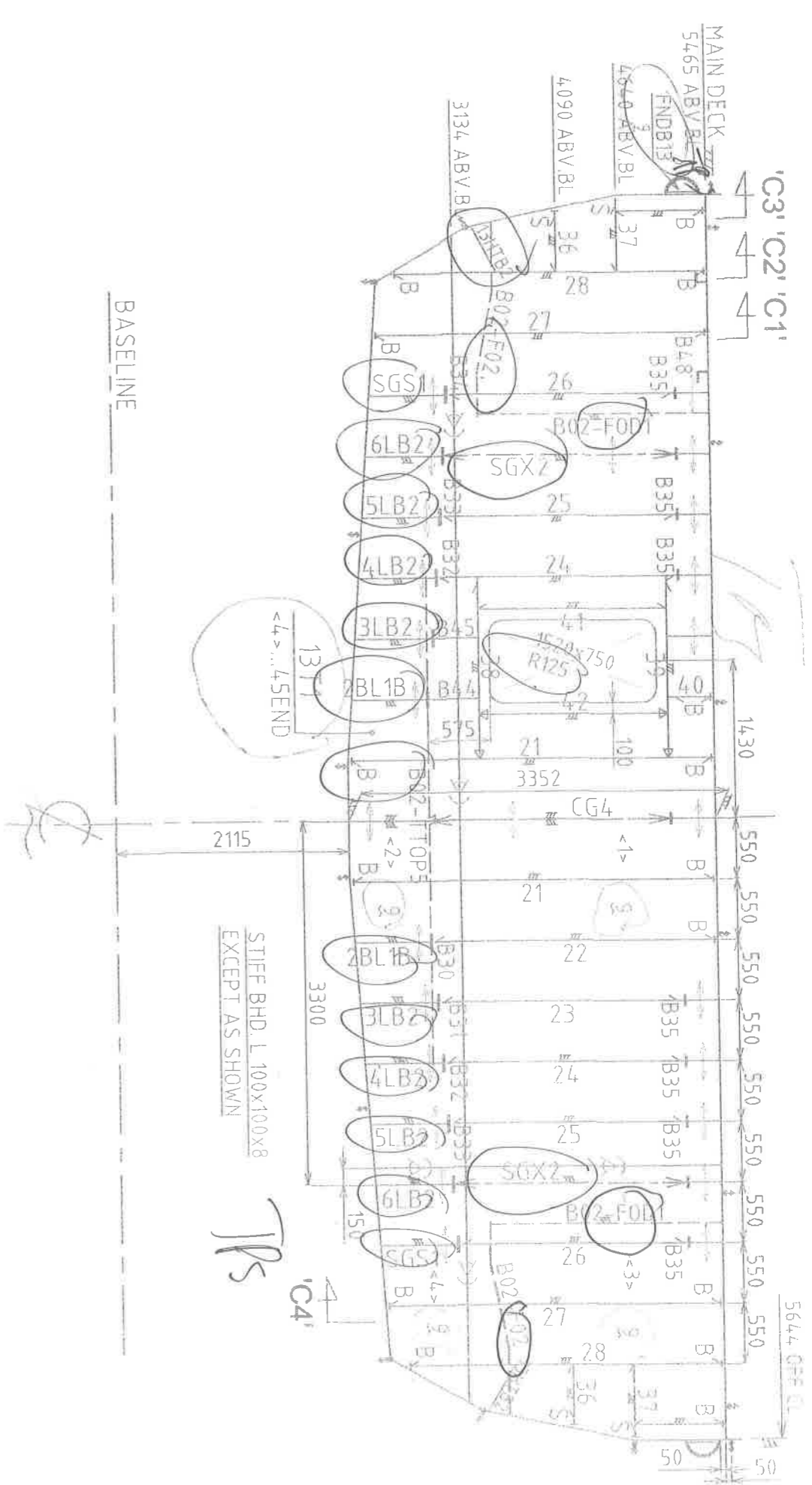
FRAME 12

(AFT-VIEW)



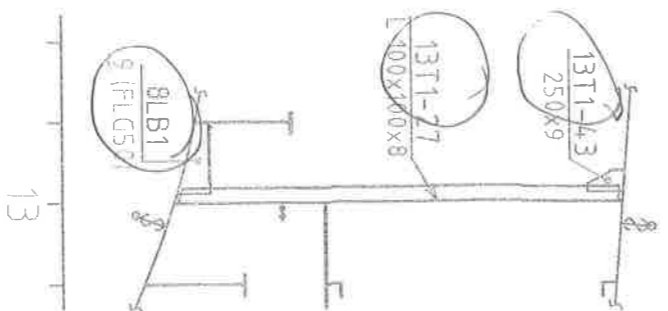
ASSEMBLY DRAWING B01			
DWG. TITLE	DWG. NO.	SCALE	SHEET
159	000.102.B01	1:50	17 OF 21
HULL NO.	REVISION		

FRAME 13 (AFT-VIEW)



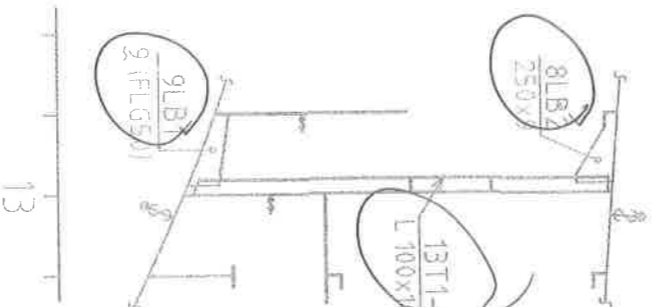
SECTION 'C1'

4400 OFF CL (P1)



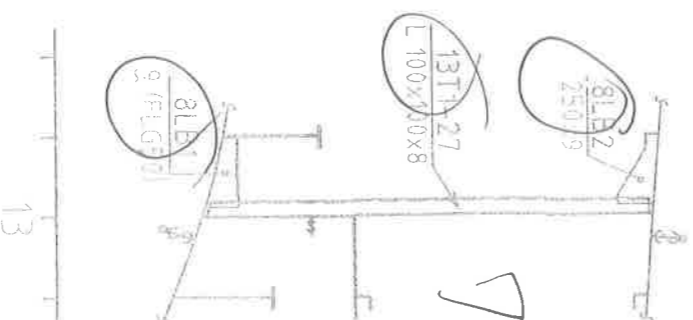
SECTION 'C2'

4950 OFF CL



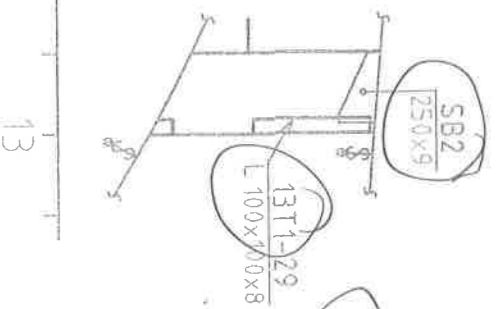
SECTION 'C4'

4400 OFF CL (S)



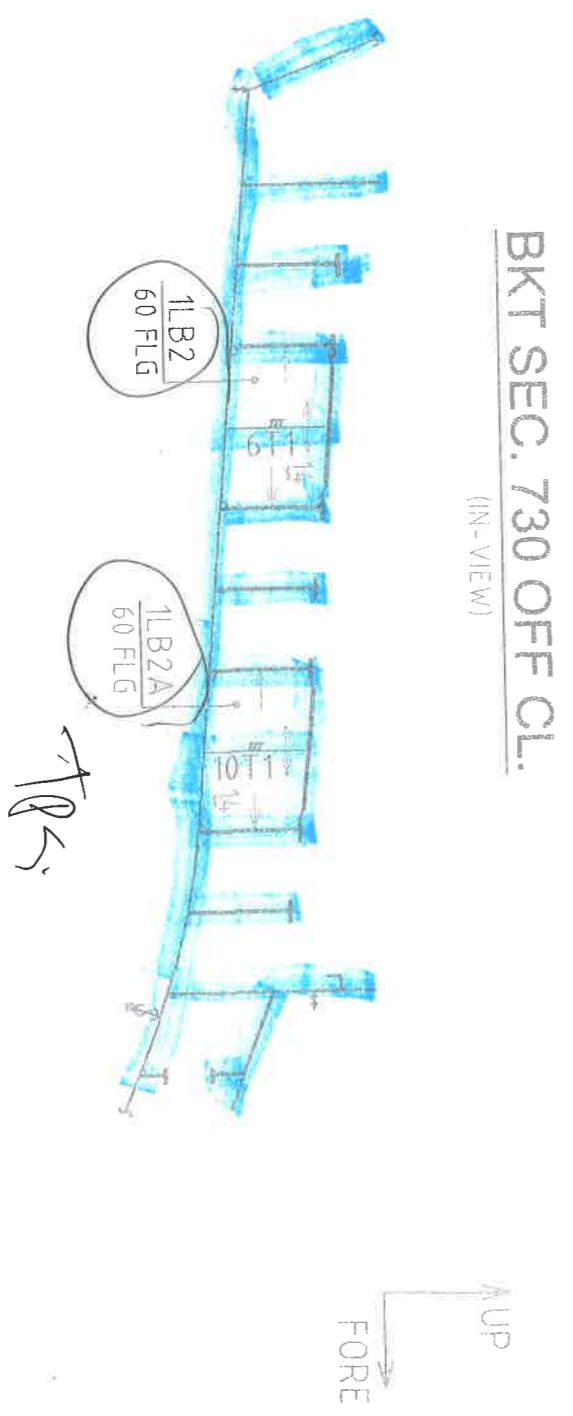
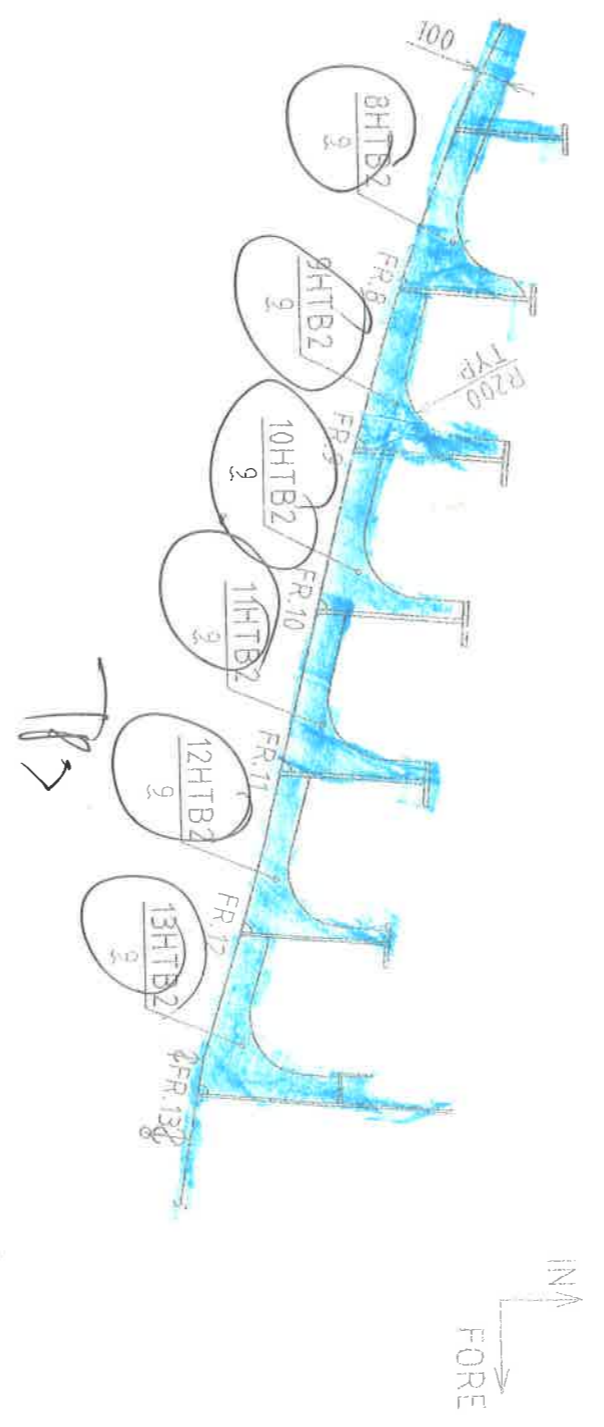
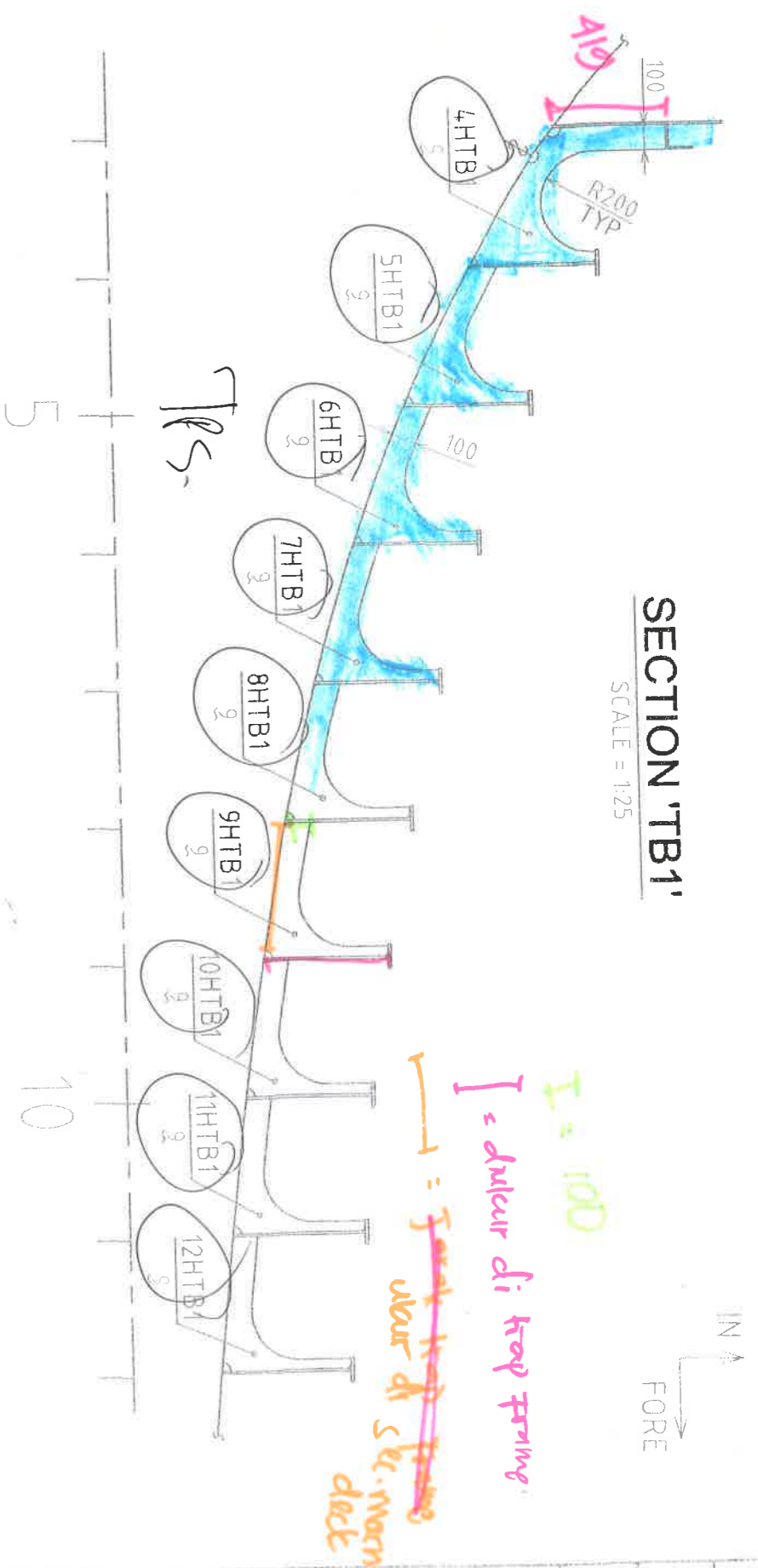
SECTION 'C3'

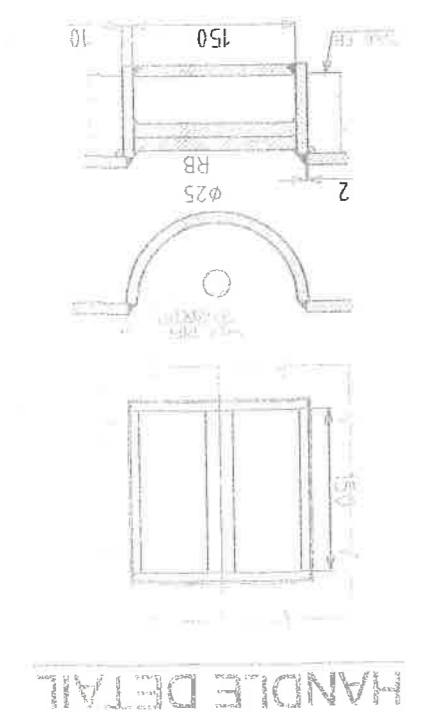
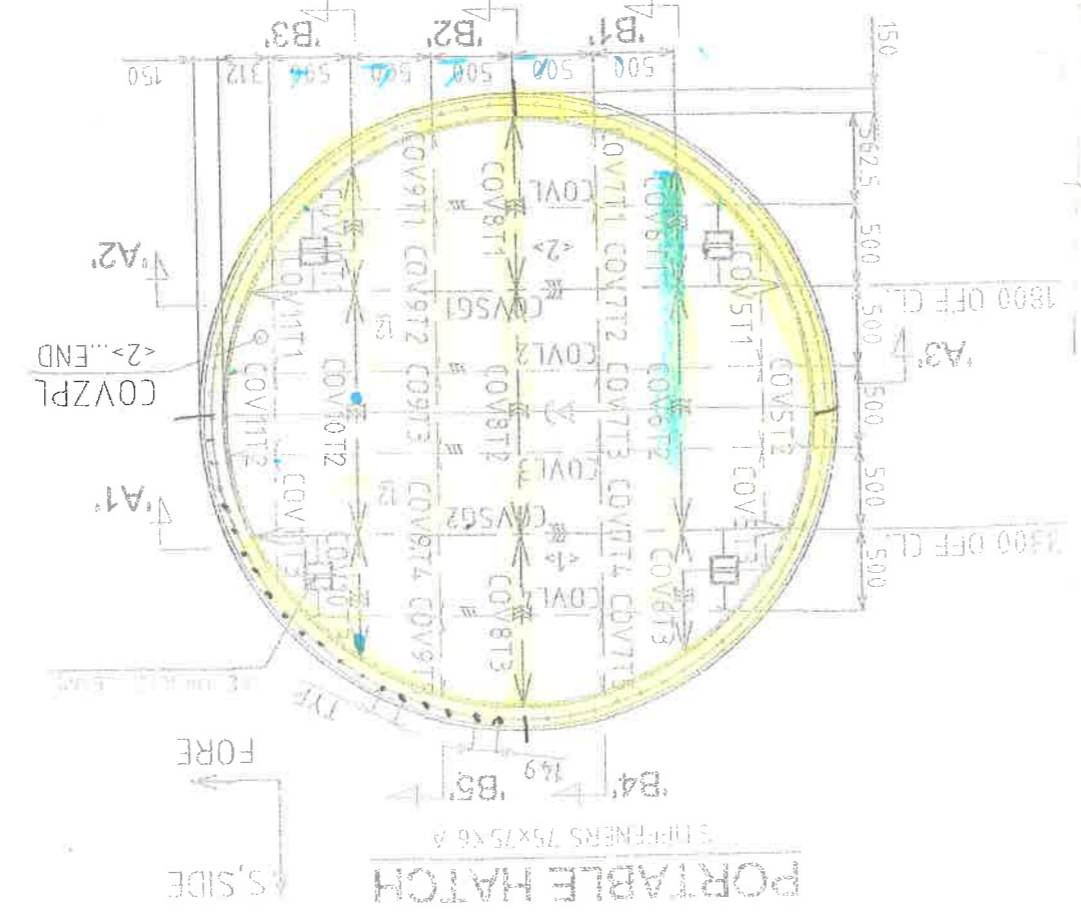
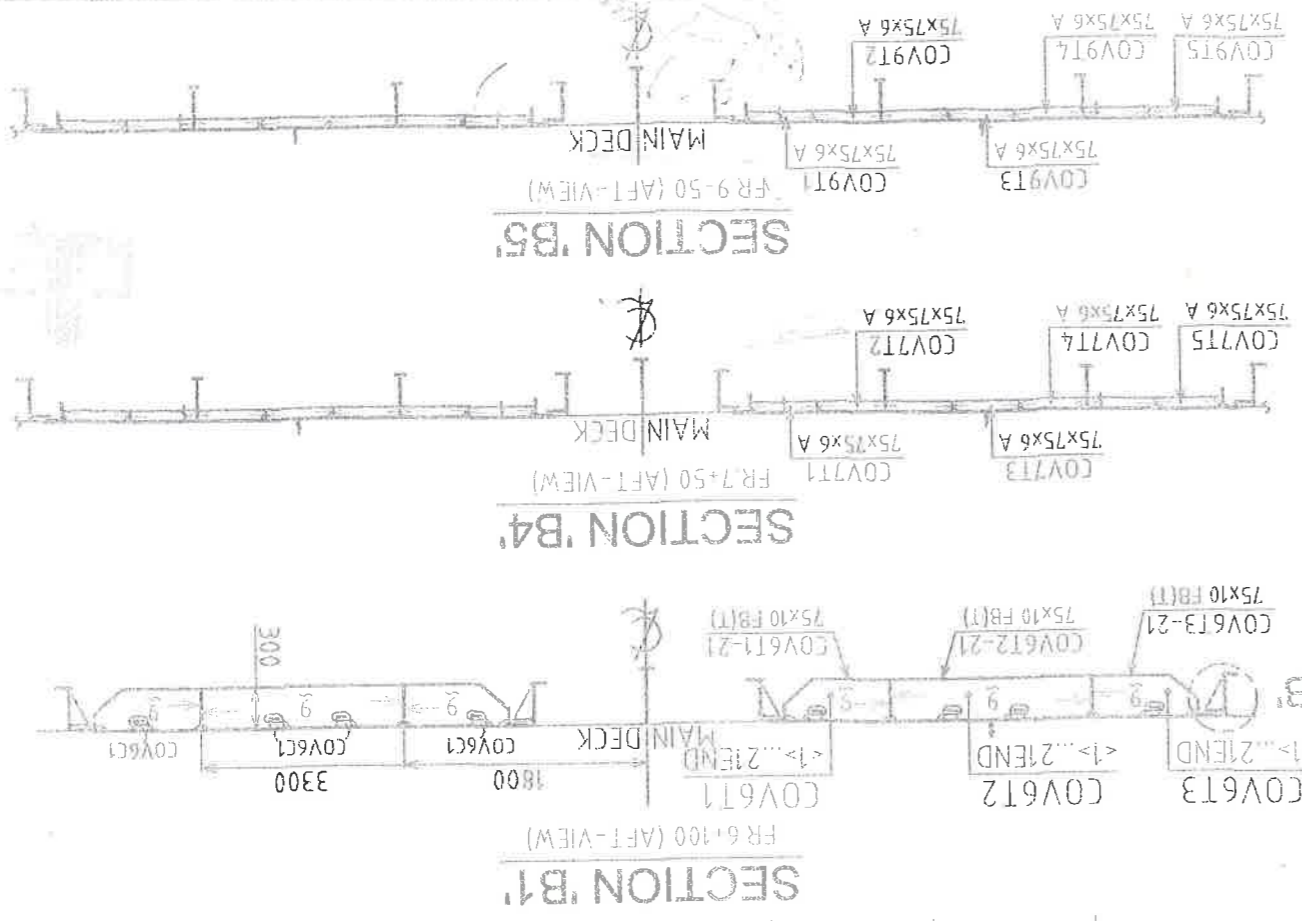
5500 OFF CL



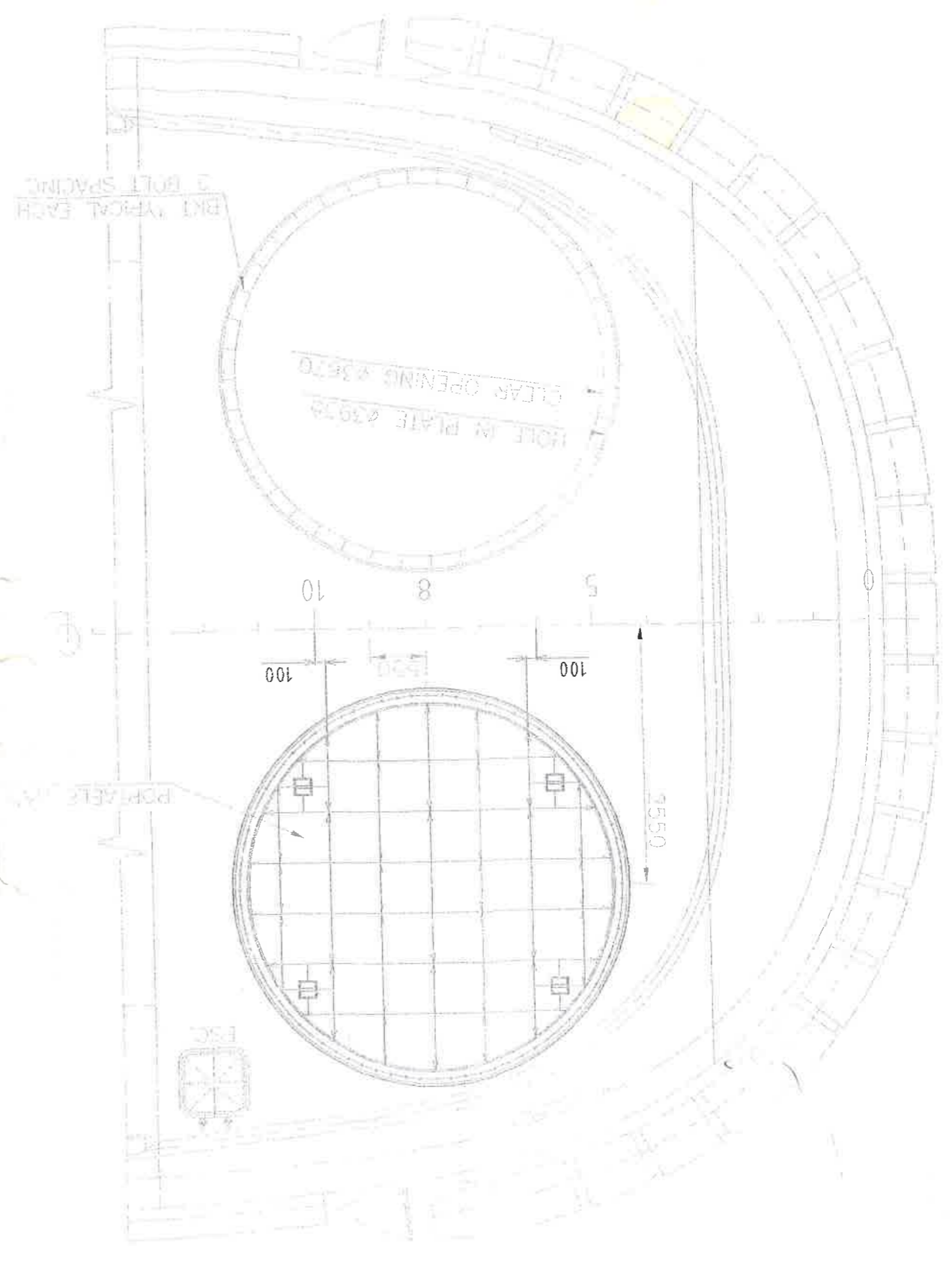
DWG. TITLE		ASSEMBLY DRAWING B01	
HULL NO.	DWG NO.	SCALE	REVISION
159	000.102.B01	1:50	1 2 3 4 B
SHEET		18 OF 21	

ASSEMBLY DRAWING B01		DWG. TITLE
HULL NO.	159	
DWG NO.	000.102.B01	
SCALE	1:50	
REVISION	0 1 2 3 4 5	
SHEET	19 OF 21	

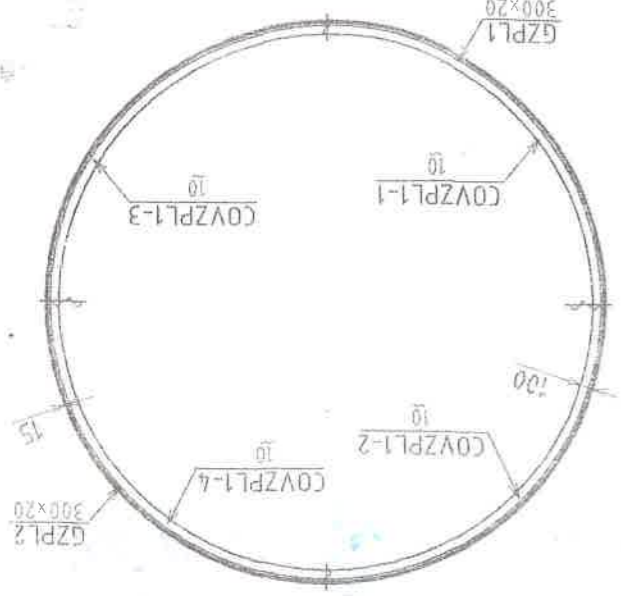




Note: 1. Bolt spacing is more than 8 times the diameter.
 2. Arrangement BRT is each 2 bolt spacing.



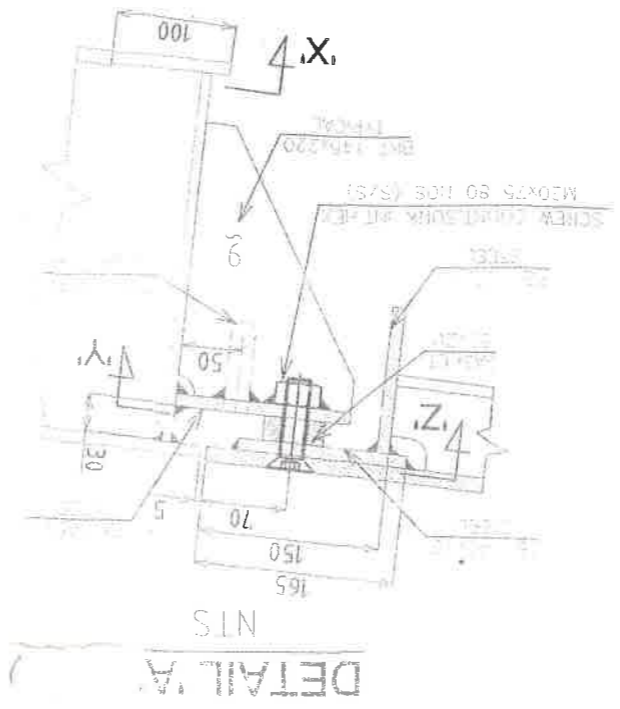
190
 MAIN DECK PLAN



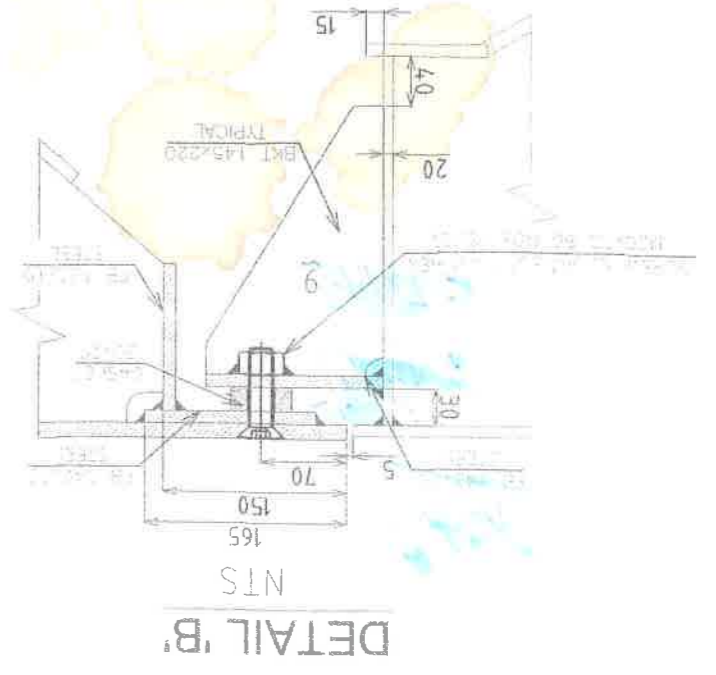
SECTION 'X'



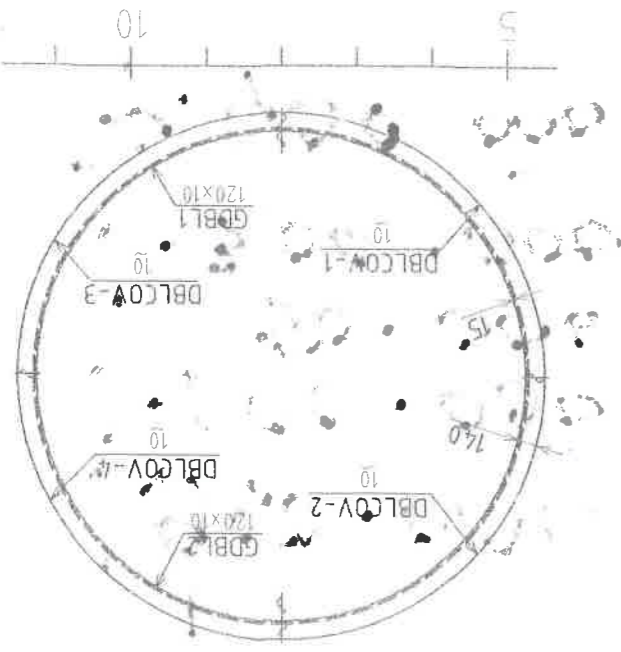
SECTION 'Y'



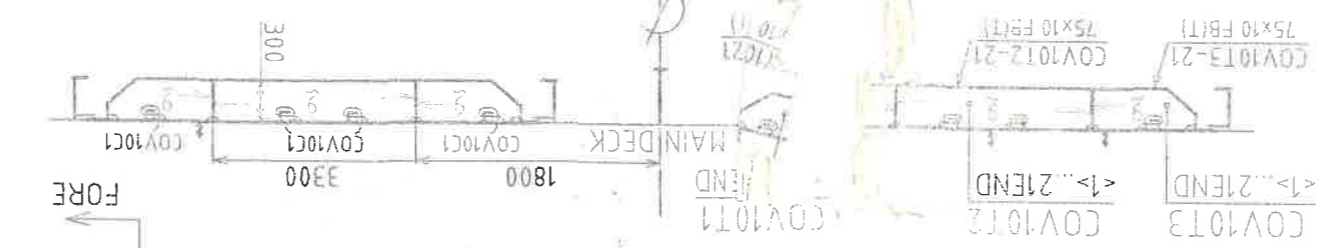
DETAIL 'A'



DETAIL 'B'



SECTION 'Z'



SECTION 'B3'

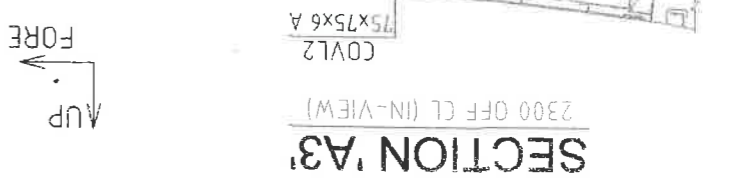


SECTION 'B2'

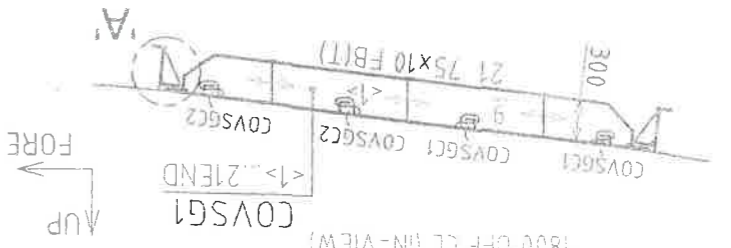
UP
 FORE

UP
 FORE

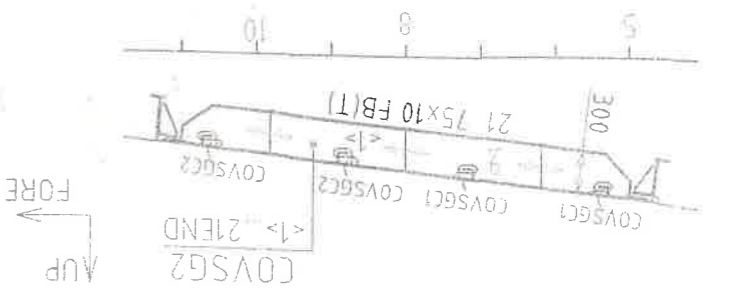
UP
 FORE



SECTION 'A3'

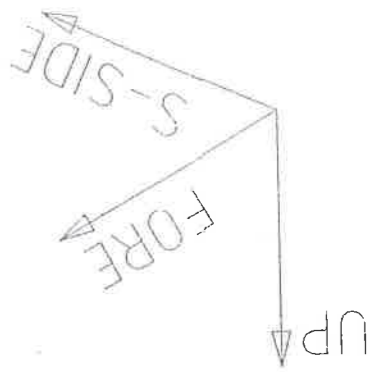
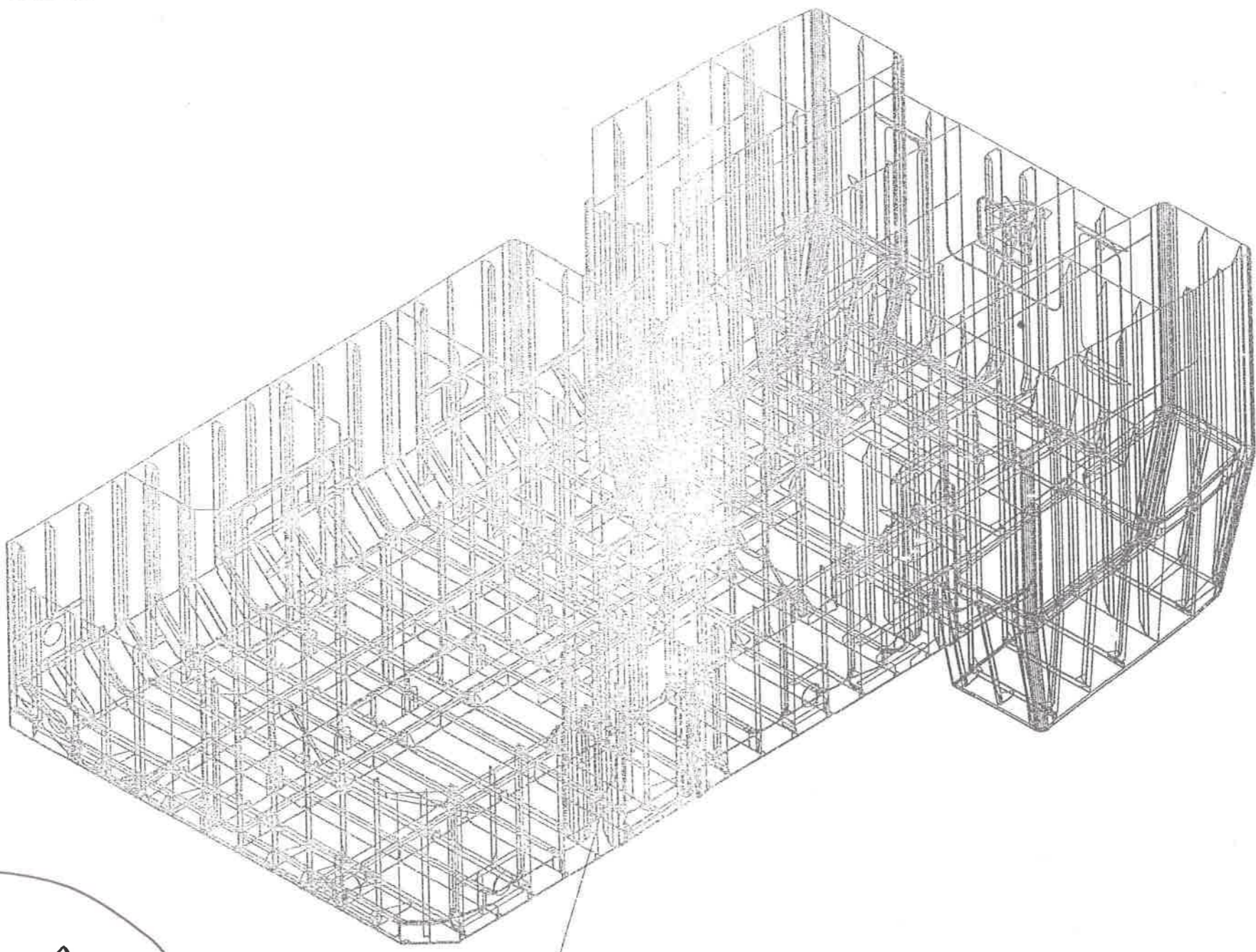


SECTION 'A2'



SECTION 'A1'

Dwg. Title		150	
ASSEMBLY DRAWING B05		Dwg. No.	
SCALE		Dwg. No. 000.102.B05	
REVISION		DATE 12/3/15	
SHEET		2 OF 18	



*As per
D.T. Umthas*

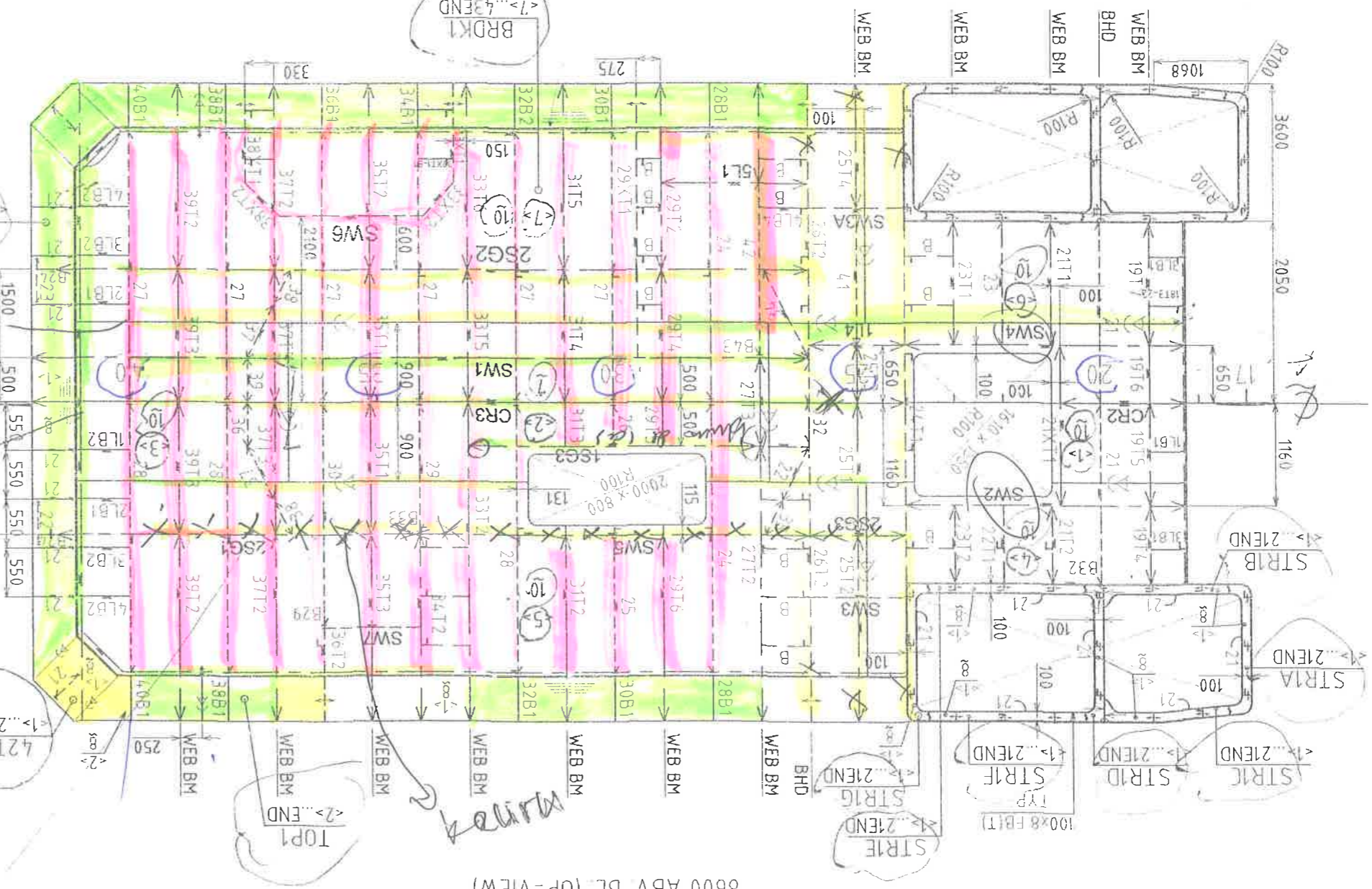
X=FR27+273
Y=-35
Z=7731
Wt=31815kg

LIFTING INFORMATION

FRAME SPACE	550
DECK PLATE	7 EXCEPT AS SHOWN
DECK BEAM	75 x 75 x 6 A
DECK CENTER GIRDER	250 x 9 / 100 x 8 FB (T)
DECK SIDE GIRDER	250 x 9 / 100 x 8 FB (T)
WEB FRAME	150 x 6 / 100 x 8 FB (T)

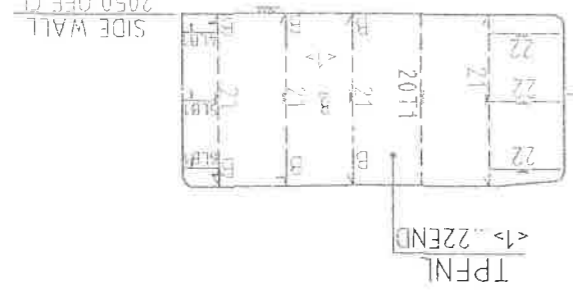
Cat: not showing frame clear every 1000 mm

DWG. TITLE	
ASSEMBLY DRAWING 805	
HULL NO.	159
DWG. NO.	000.102.805
SCALE	1:CG
REVISION	012345
SHEET	1 OF 18

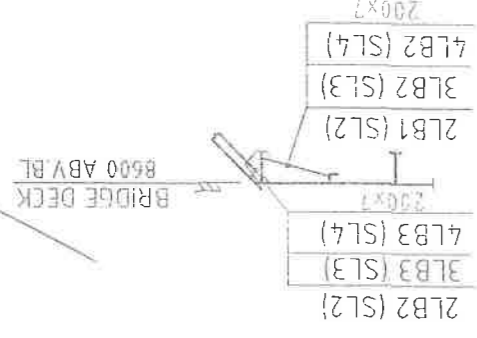


BRIDGE DECK
8600 ABV. BL. (UP-VIEW)

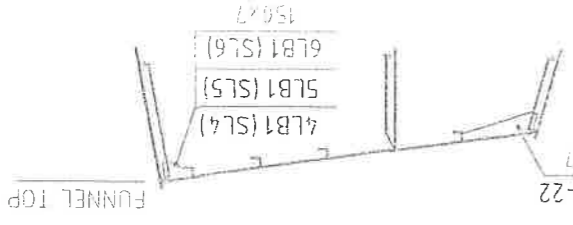
FUNNEL TOP
(UP-VIEW)



SECTION "M"



SECTION "N"



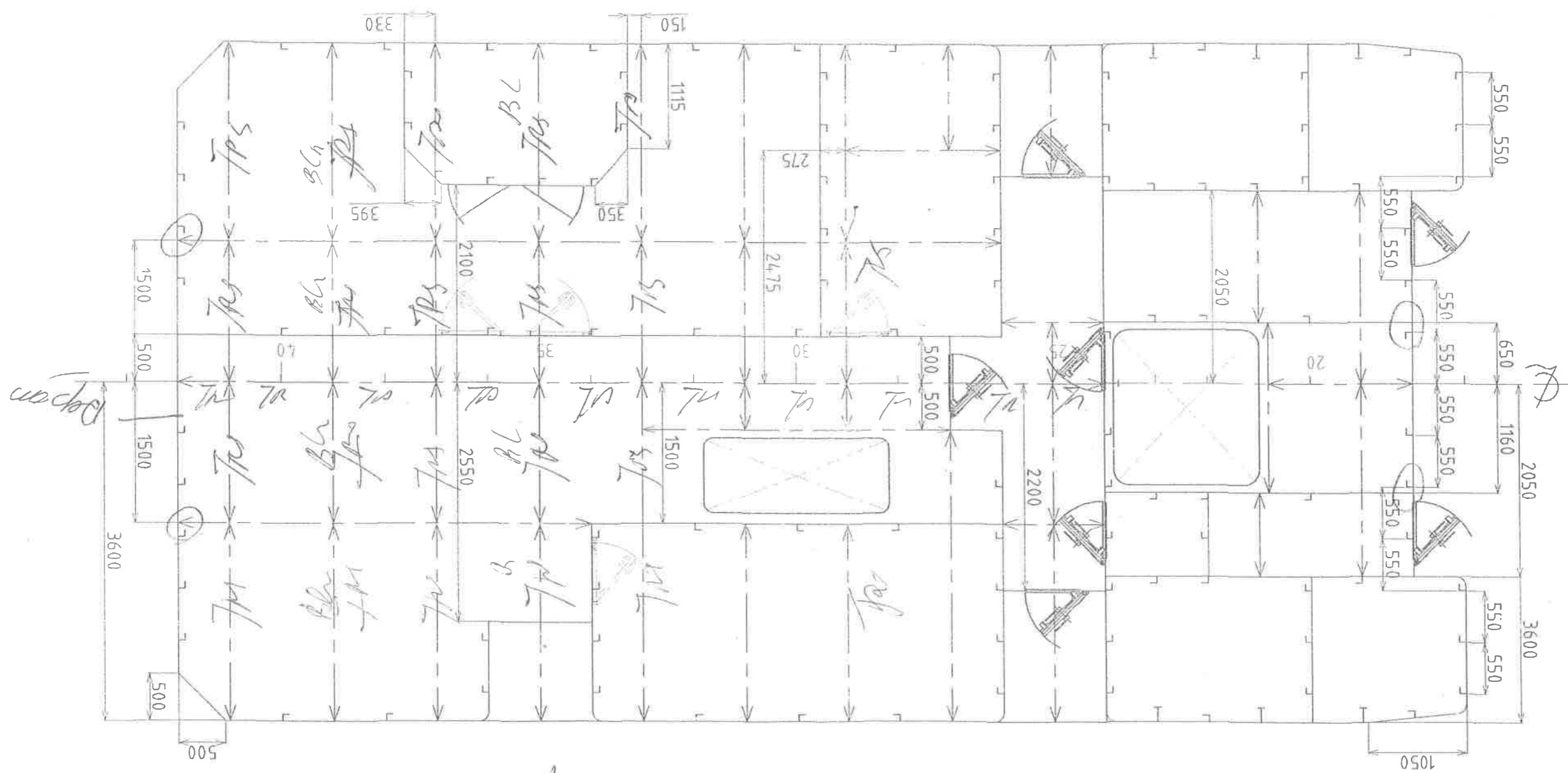
Handwritten notes in blue ink:
 5/15/22
 22/8/2012
 P. SIDE
 FORE
 TOP
 4.2T3
 4.2T4
 4.2T5
 4.2T6
 4.2T7
 4.2T8
 4.2T9
 4.2T10
 4.2T11
 4.2T12
 4.2T13
 4.2T14
 4.2T15
 4.2T16
 4.2T17
 4.2T18
 4.2T19
 4.2T20
 4.2T21
 4.2T22
 4.2T23
 4.2T24
 4.2T25
 4.2T26
 4.2T27
 4.2T28
 4.2T29
 4.2T30
 4.2T31
 4.2T32
 4.2T33
 4.2T34
 4.2T35
 4.2T36
 4.2T37
 4.2T38
 4.2T39
 4.2T40
 4.2T41
 4.2T42
 4.2T43
 4.2T44
 4.2T45
 4.2T46
 4.2T47
 4.2T48
 4.2T49
 4.2T50
 4.2T51
 4.2T52
 4.2T53
 4.2T54
 4.2T55
 4.2T56
 4.2T57
 4.2T58
 4.2T59
 4.2T60
 4.2T61
 4.2T62
 4.2T63
 4.2T64
 4.2T65
 4.2T66
 4.2T67
 4.2T68
 4.2T69
 4.2T70
 4.2T71
 4.2T72
 4.2T73
 4.2T74
 4.2T75
 4.2T76
 4.2T77
 4.2T78
 4.2T79
 4.2T80
 4.2T81
 4.2T82
 4.2T83
 4.2T84
 4.2T85
 4.2T86
 4.2T87
 4.2T88
 4.2T89
 4.2T90
 4.2T91
 4.2T92
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 4.2T95
 4.2T96
 4.2T97
 4.2T98
 4.2T99
 4.2T100

OS

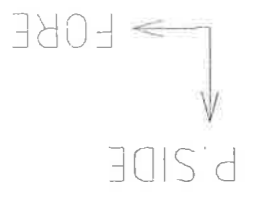
HULL NO. 159	DWG NO. 000.102.B05	SCALE 1:50	REVISION	SHEET 3 OF 18
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ASSEMBLY DRAWING B05

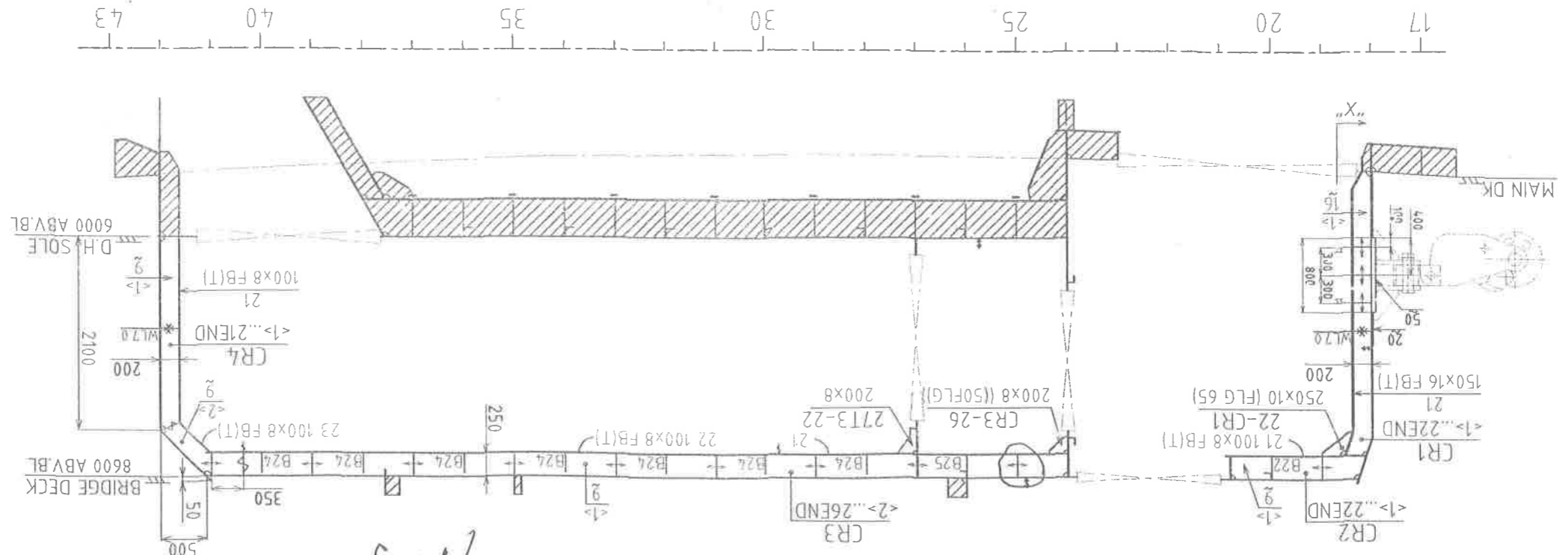
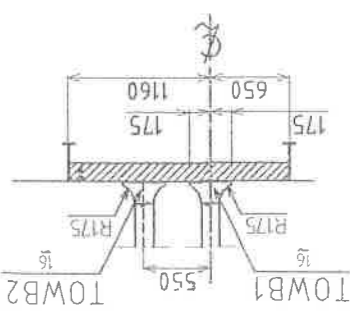
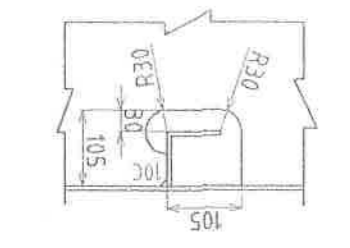
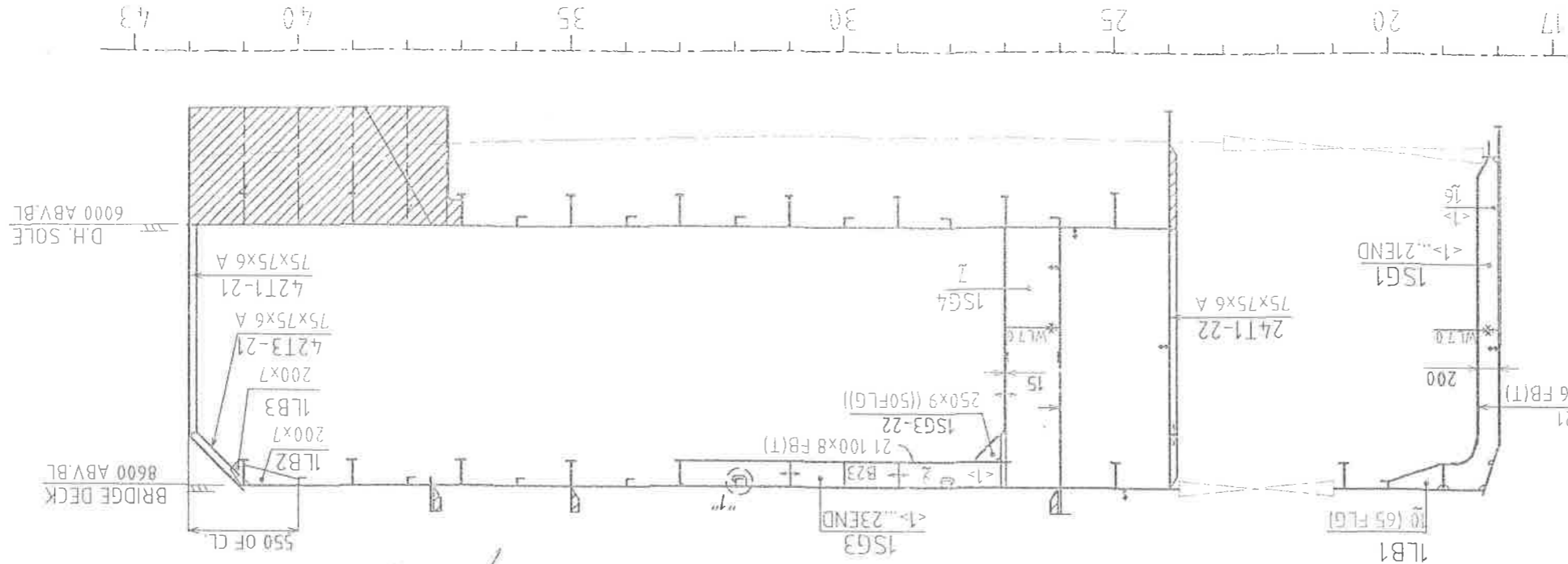
DWG. TITLE



BRIDGE DECK PLAN *TPS*



HULL NO.	DWG. NO.	SCALE	REVISION	SHEET
159	000.102.805	1:60	012345	5 OF 18
ASSEMBLY DRAWING B05				



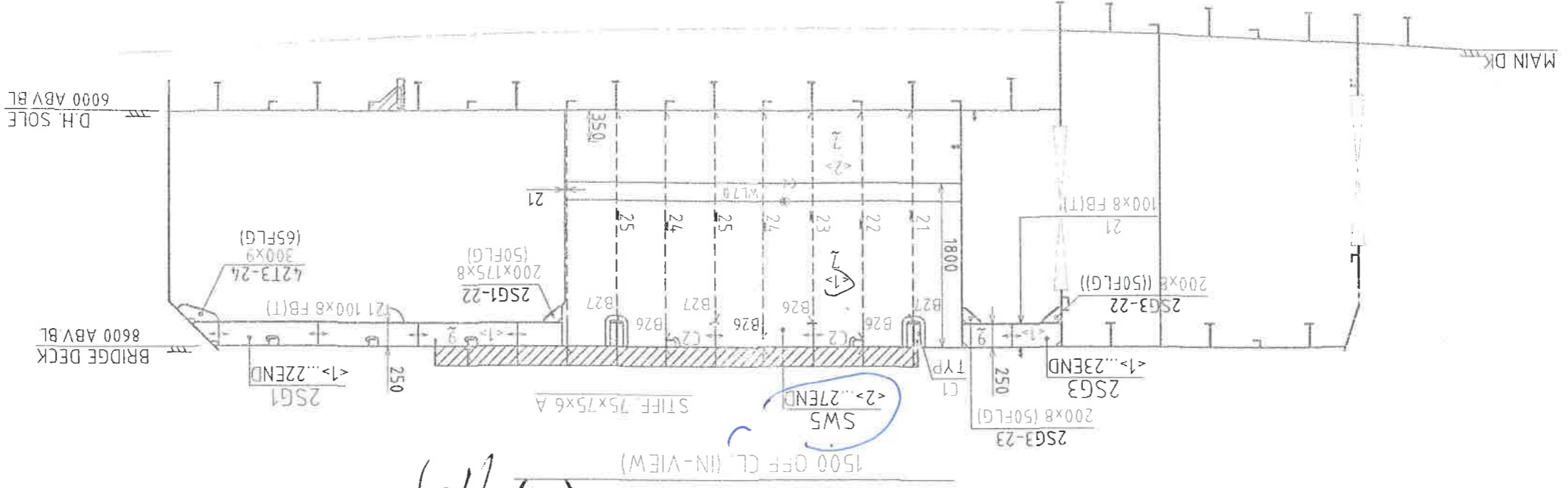
UP
← FORE

INS

HULL NO.	159
DWG NO.	000.102.B05
SCALE	1:80
REVISION	212345
SHEET	6 OF 18

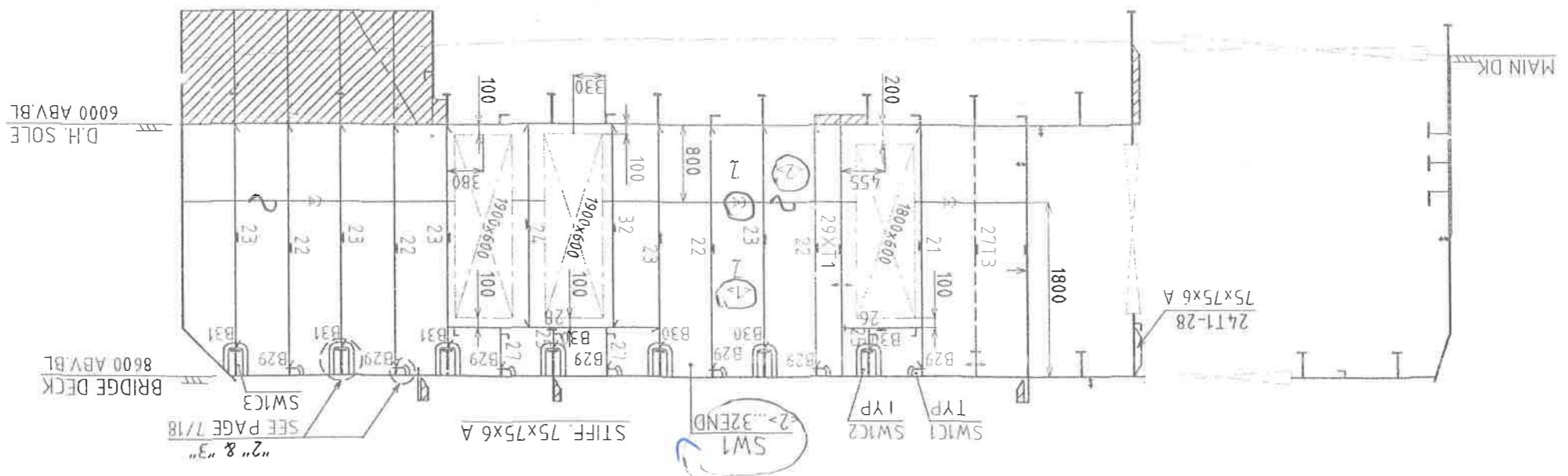
ASSEMBLY DRAWING B05

17 20 25 30 35 40 43



SIDE WALL (P)

17 20 25 30 35 40 43

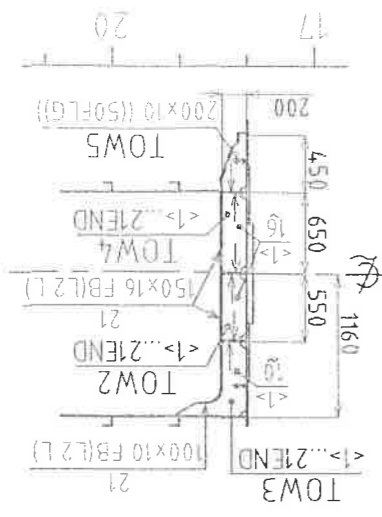


INNER WALL (S)

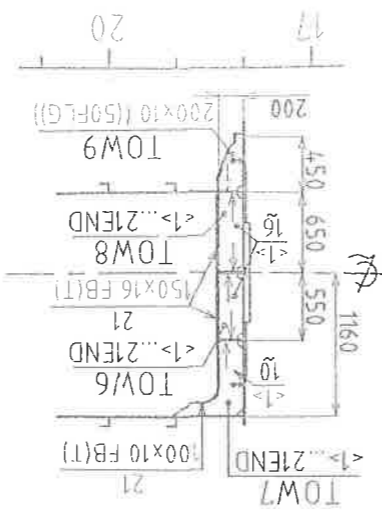
UP
FORE

21-32

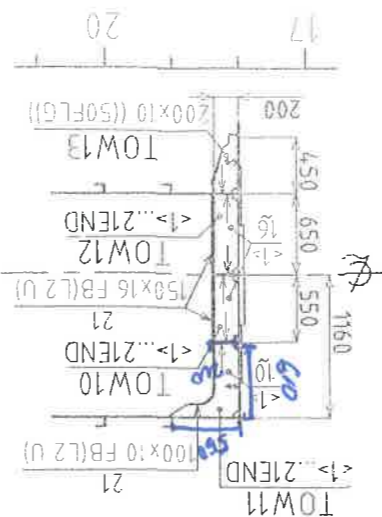
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



SECTION "C"

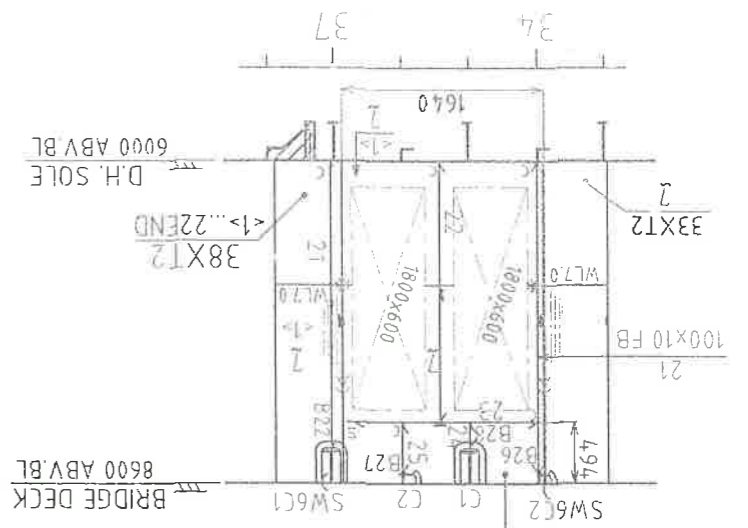


SECTION "B"

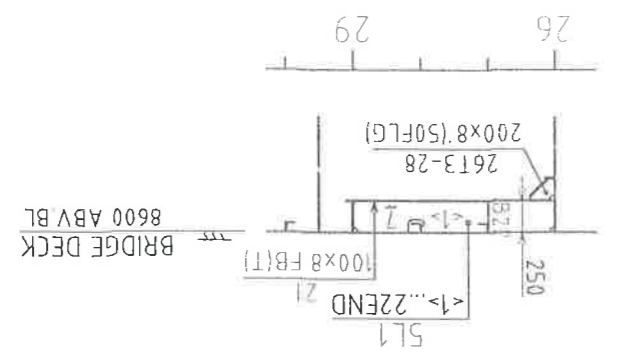


SECTION "A"

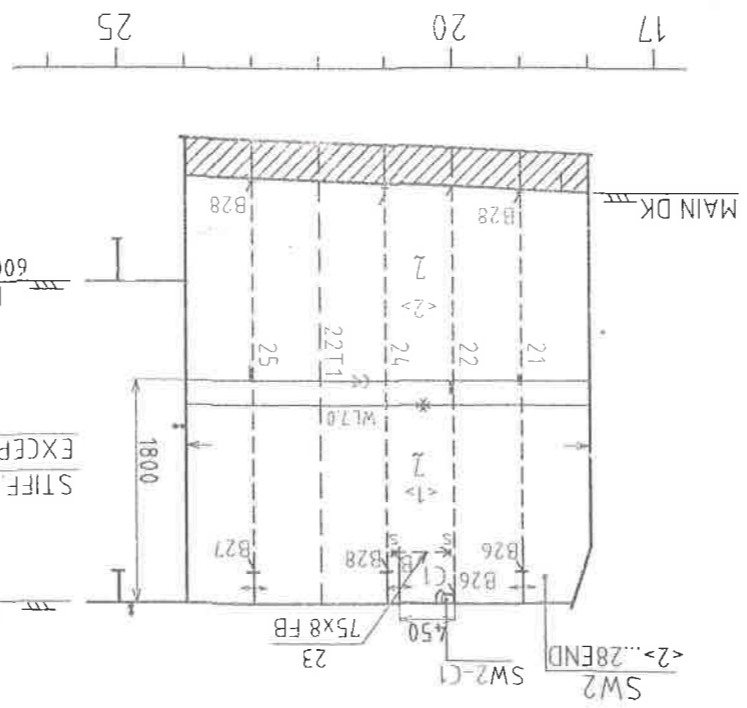
** Cat. wall thickness by 50-50
 diaphragm / diaphragms*



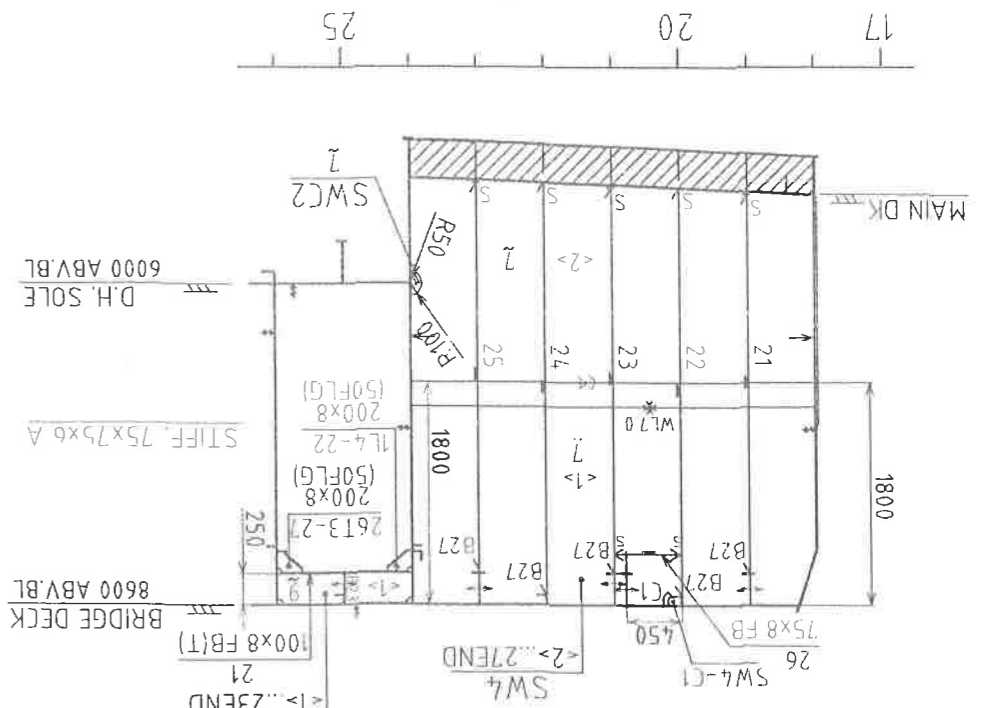
INNER WALL (S)



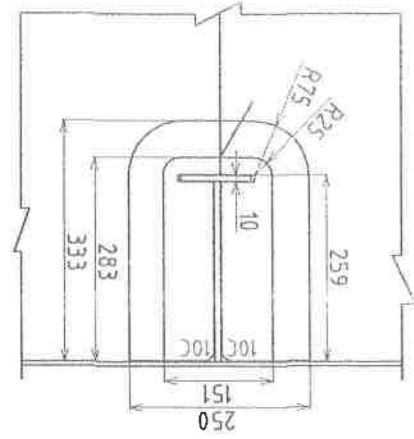
SIDE GIRDER(S)



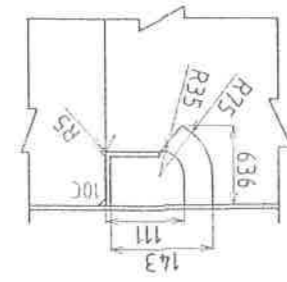
INNER WALL (P)



INNER WALL (S)

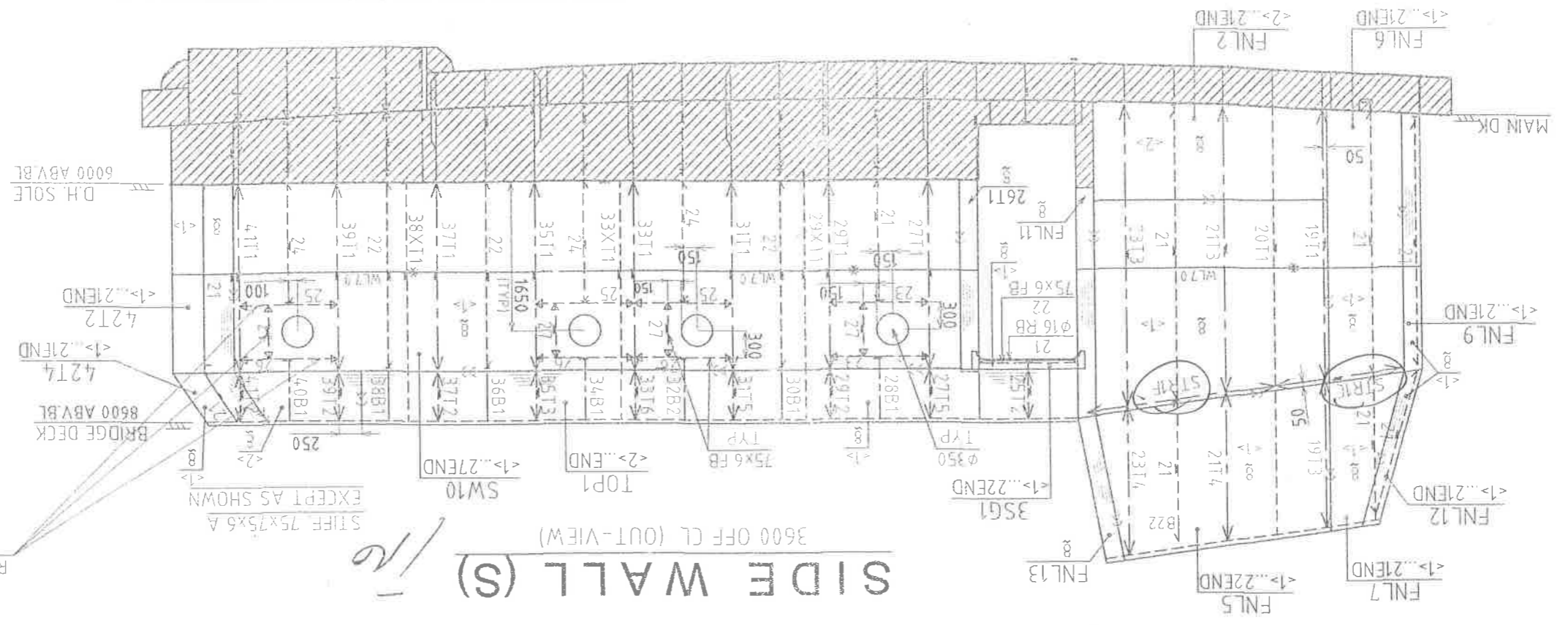


DETAIL "3"



DETAIL "2"

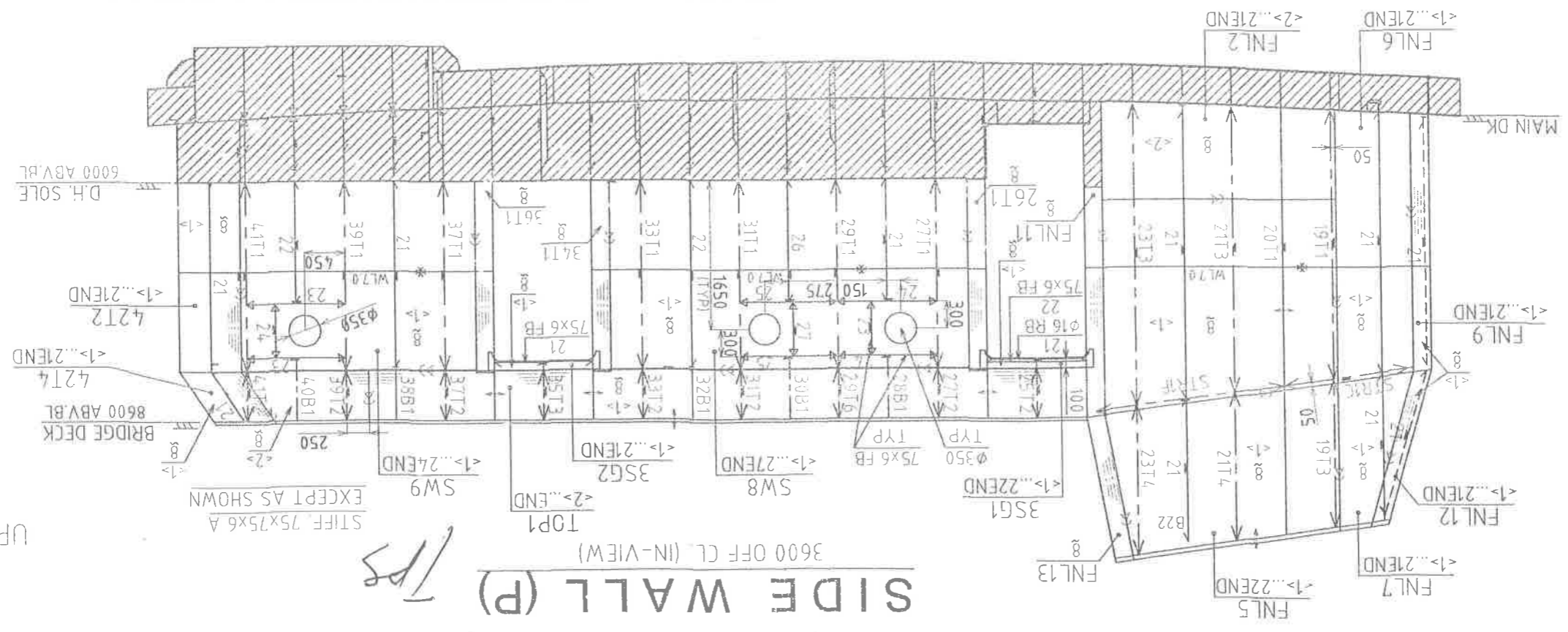
UP
 FORE



SIDE WALL (S)

3600 OFF CL (OUT-VIEW)

SIDE SCUTLE WALL CUT REINFORCEMENT / 75x6 FB FINAL WELD TO BE ADJUST ON SITE AFTER SIDE SCUTLE & BOX FITTED UP (TYP)

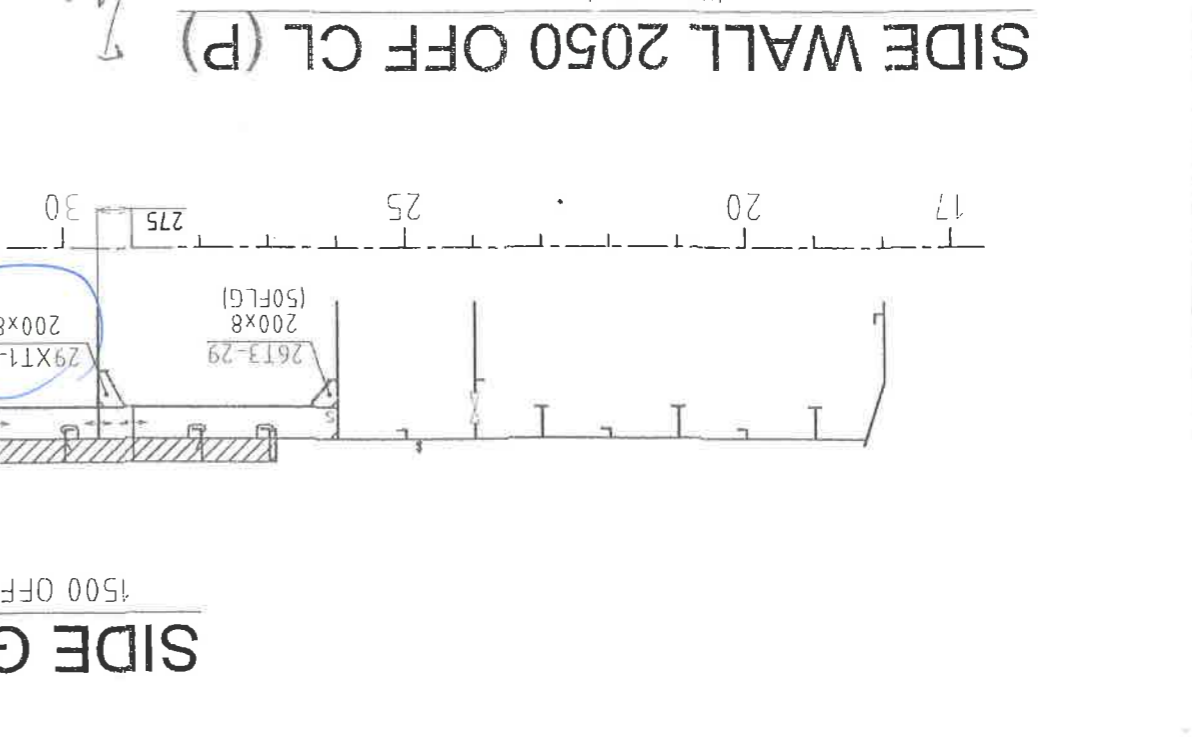
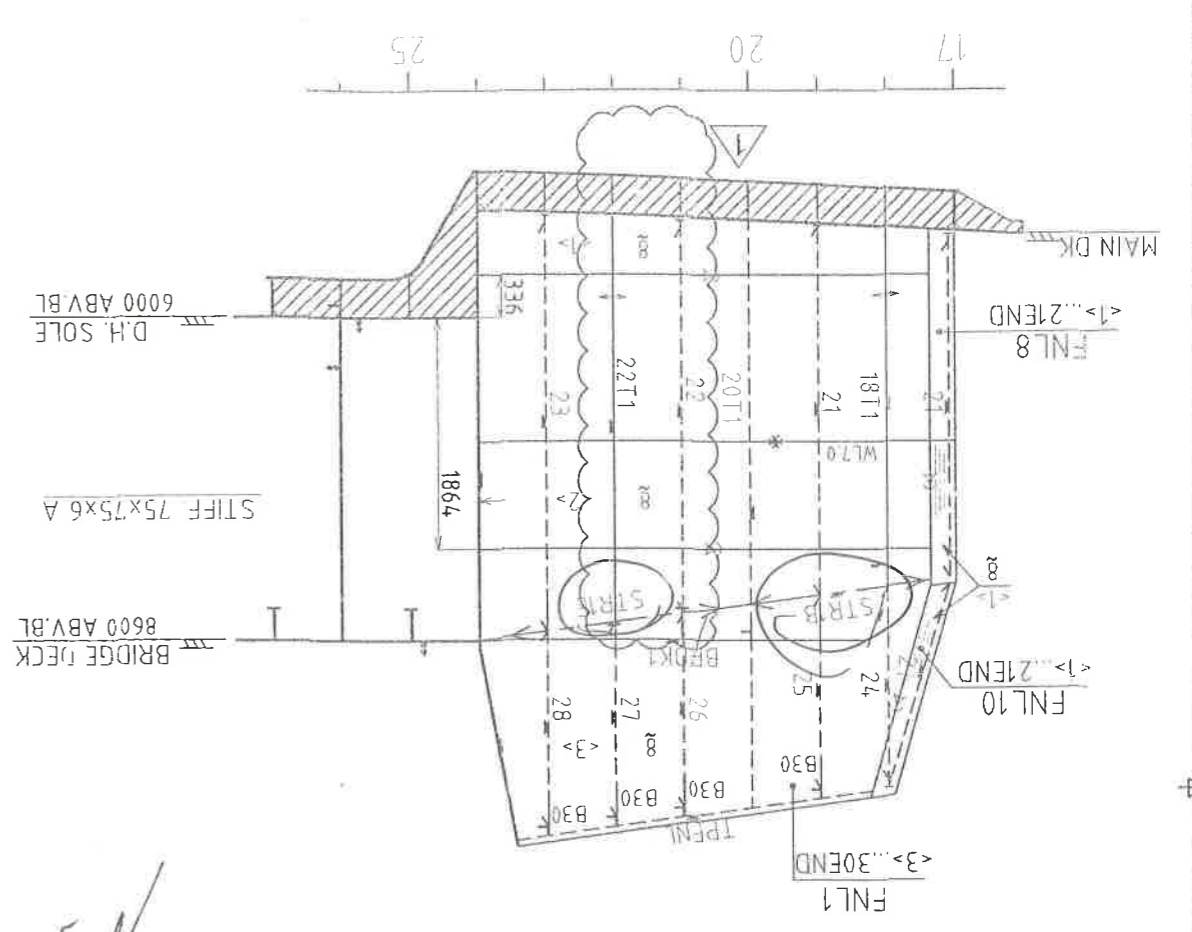
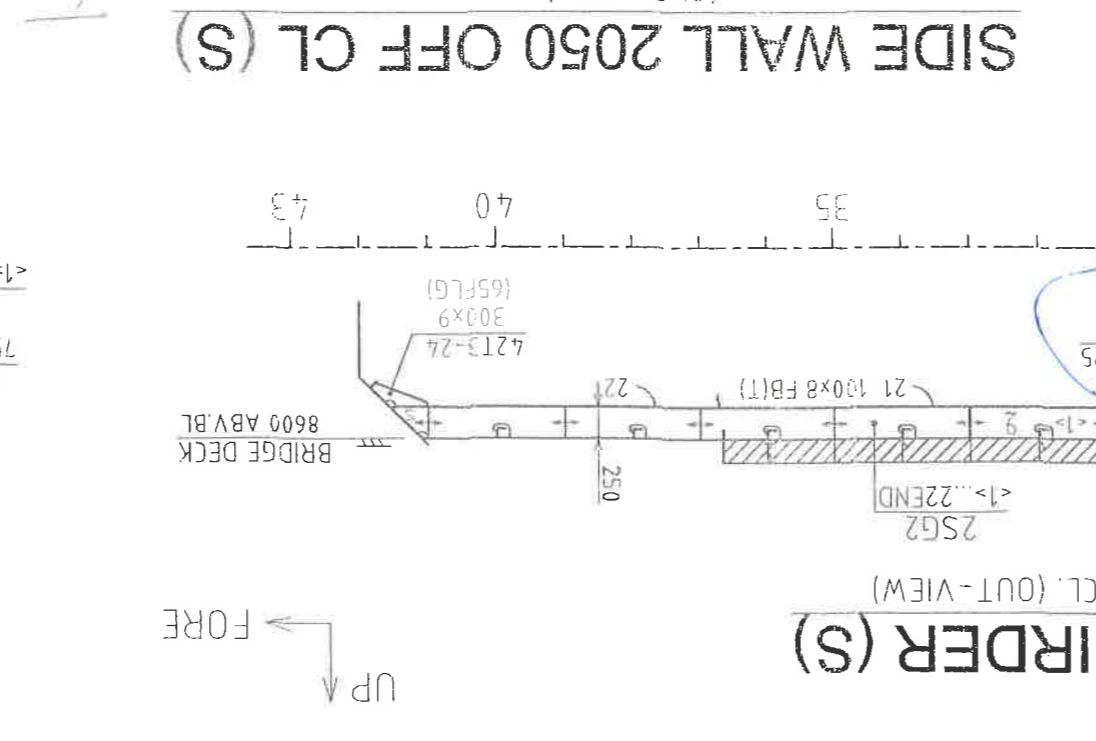
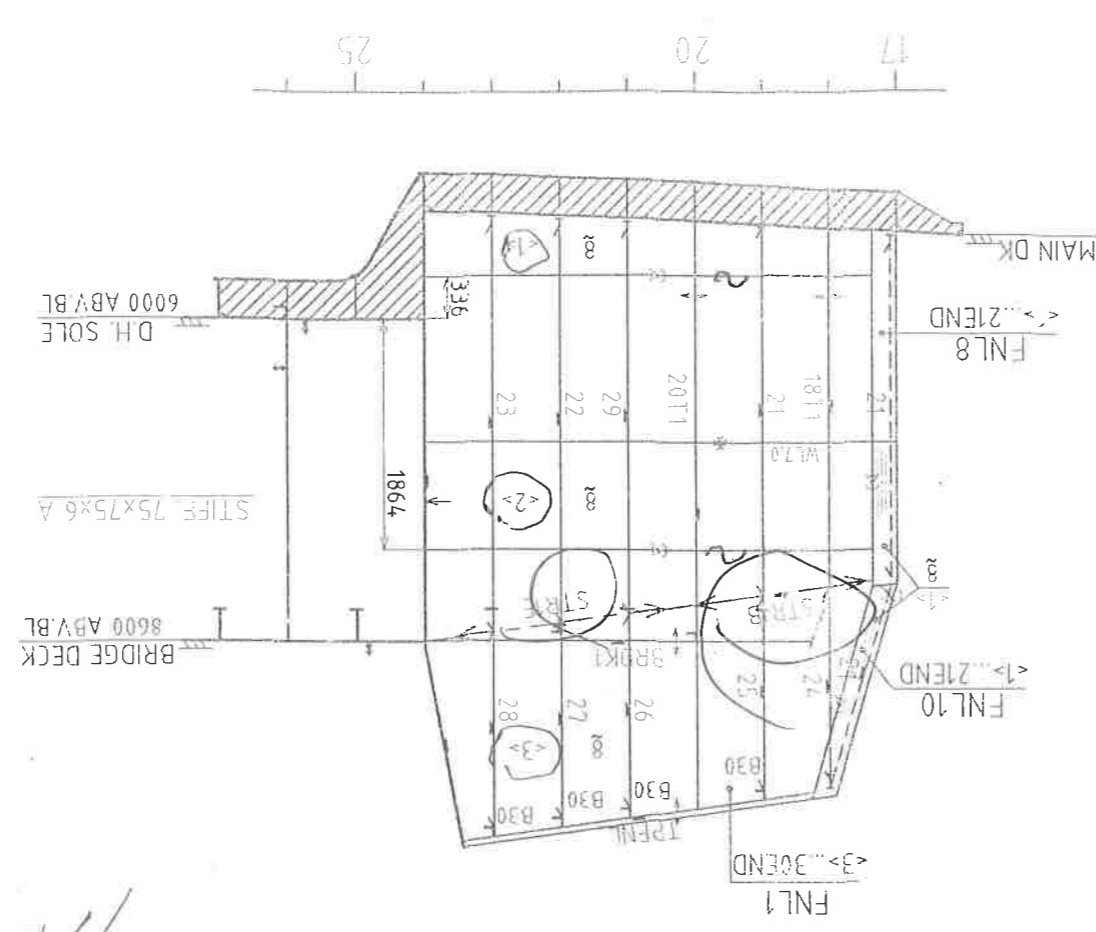
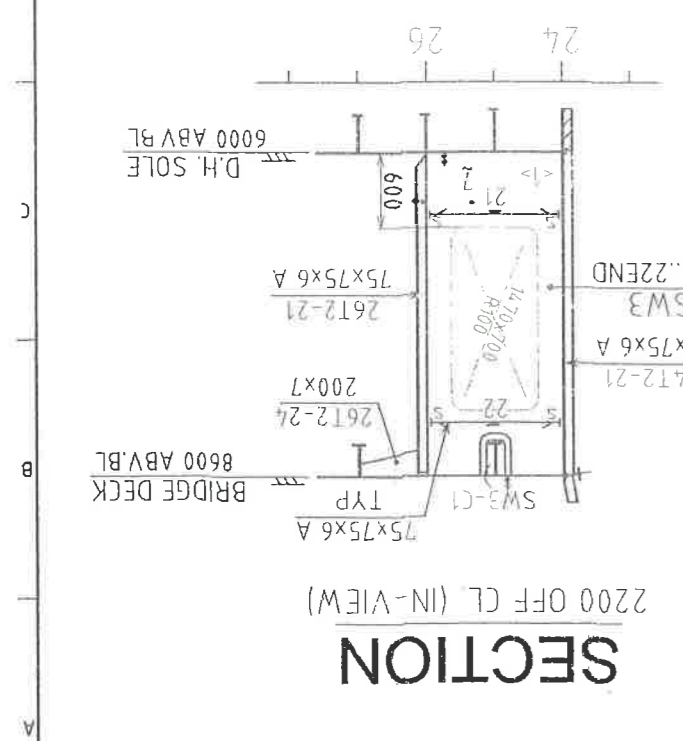
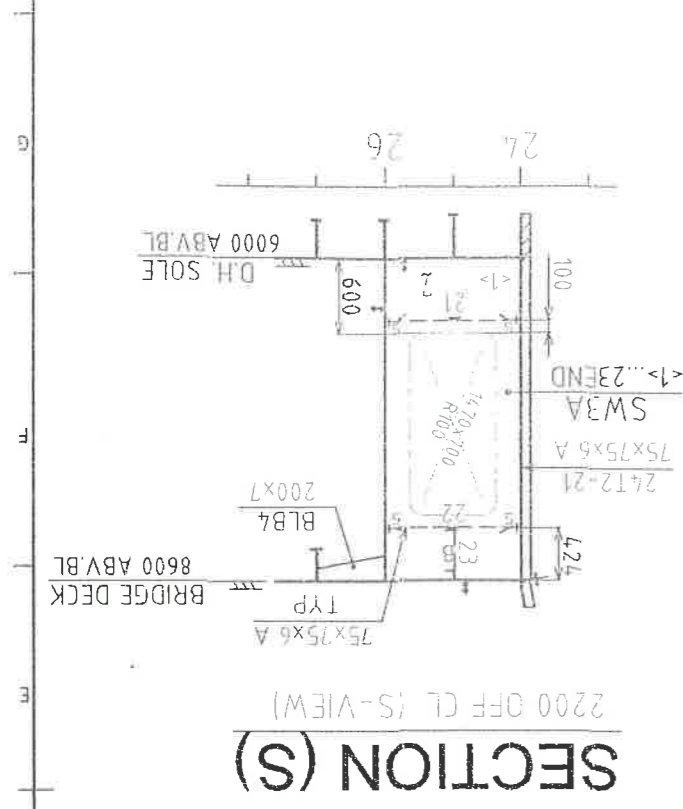


SIDE WALL (P)

3600 OFF CL (IN-VIEW)

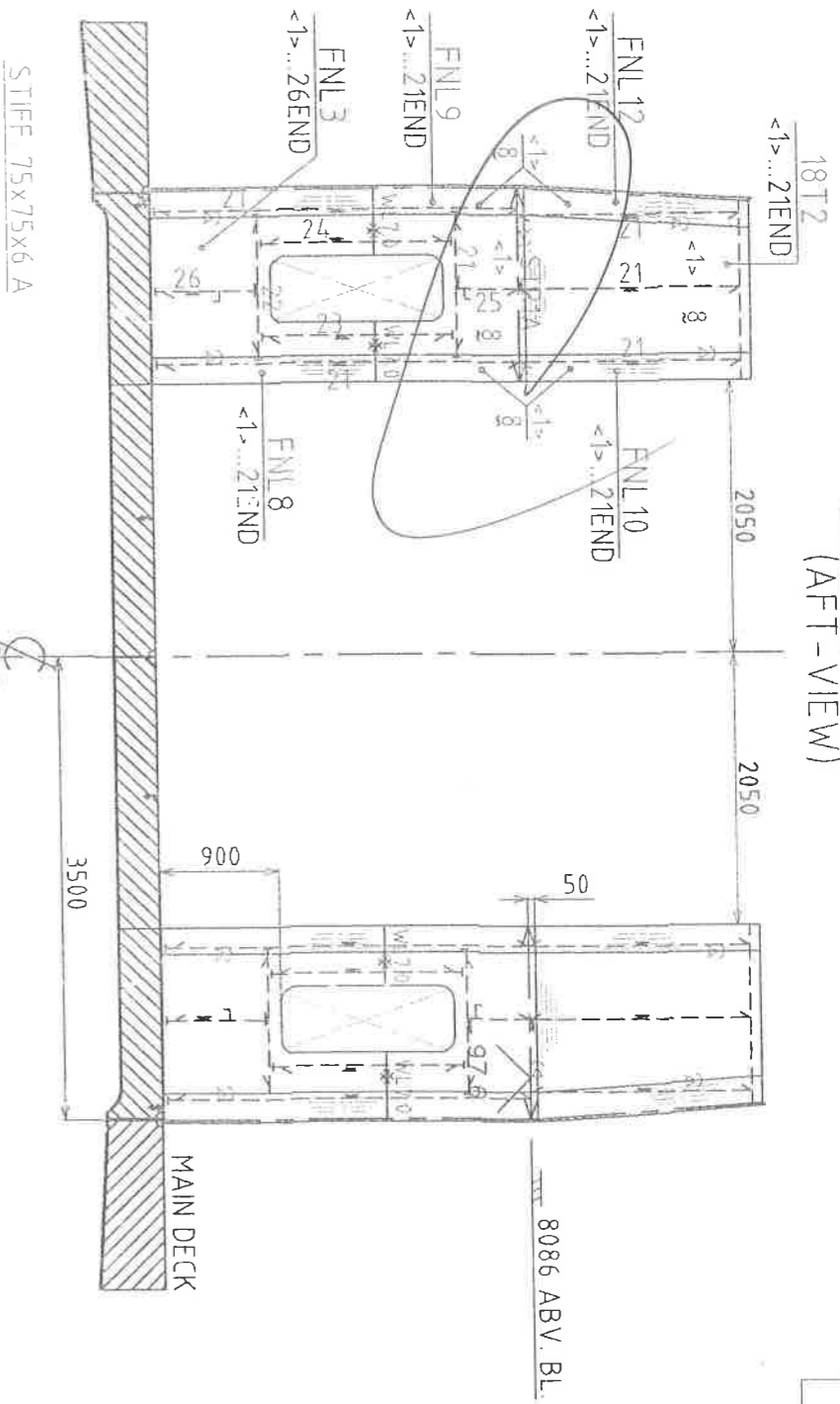
UP
 FORE

16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
ASSEMBLY DRAWING B05															
DWG. TITLE															
HULL NO. 159															
DWG. NO. 000.102.B05															
SCALE 1:60															
REVISION															
SHEET 8 OF 18															



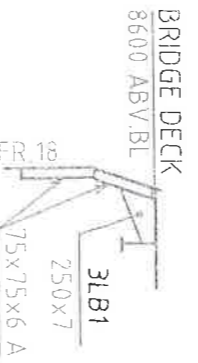
FRAME 17

(AFT - VIEW)



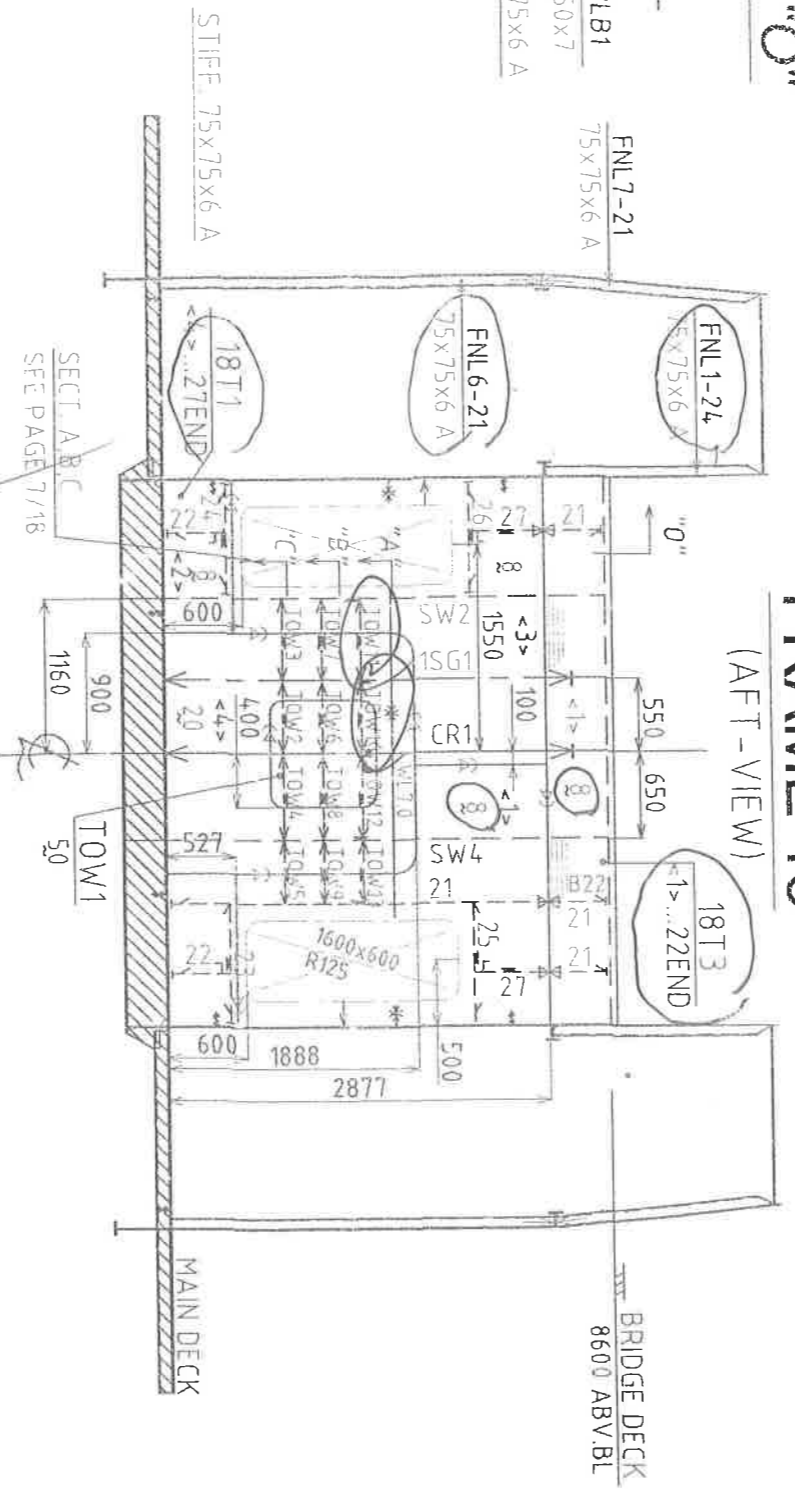
UP
S. SIDE

SECTION "O"



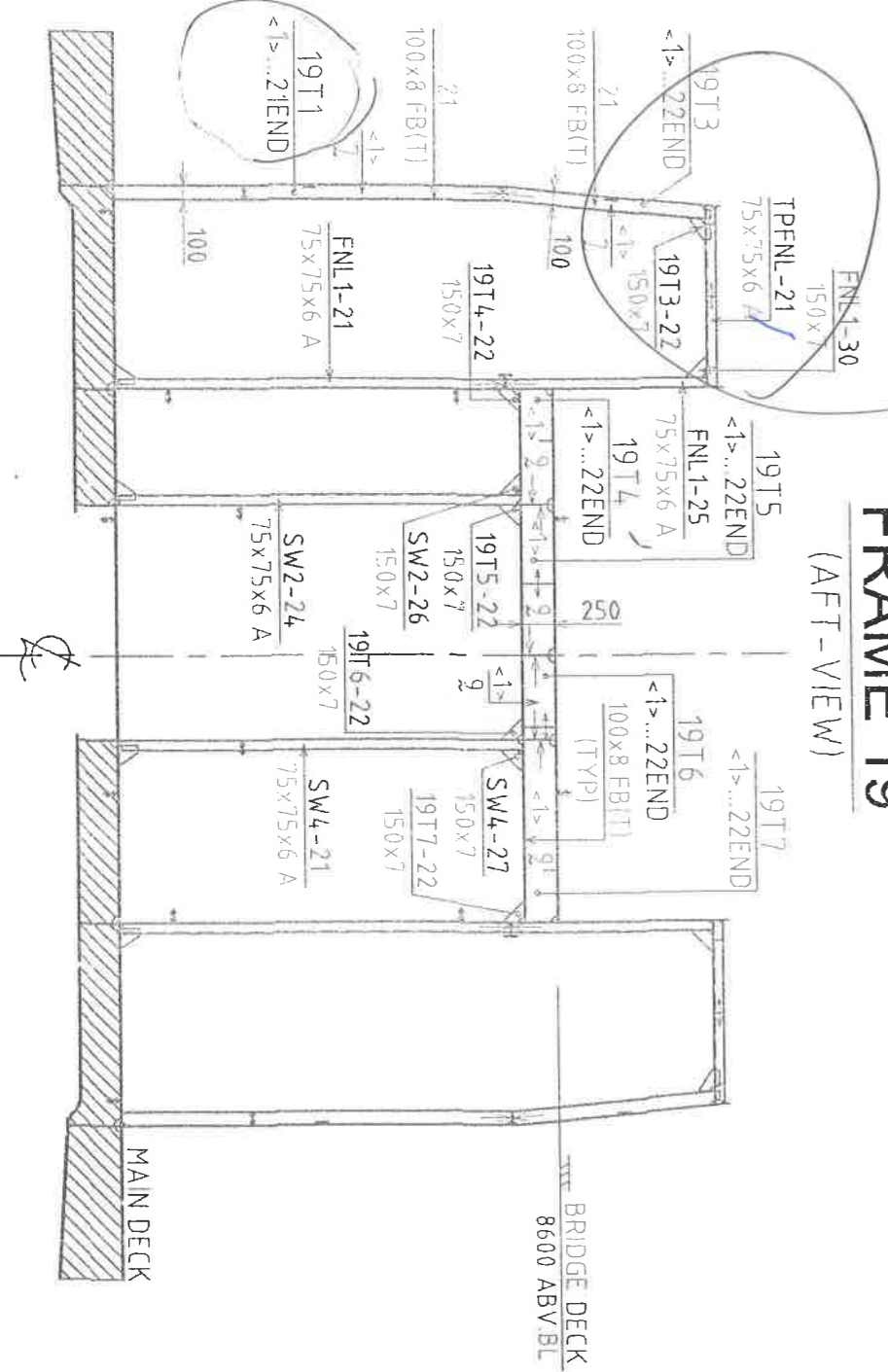
FRAME 18

(AFT - VIEW)



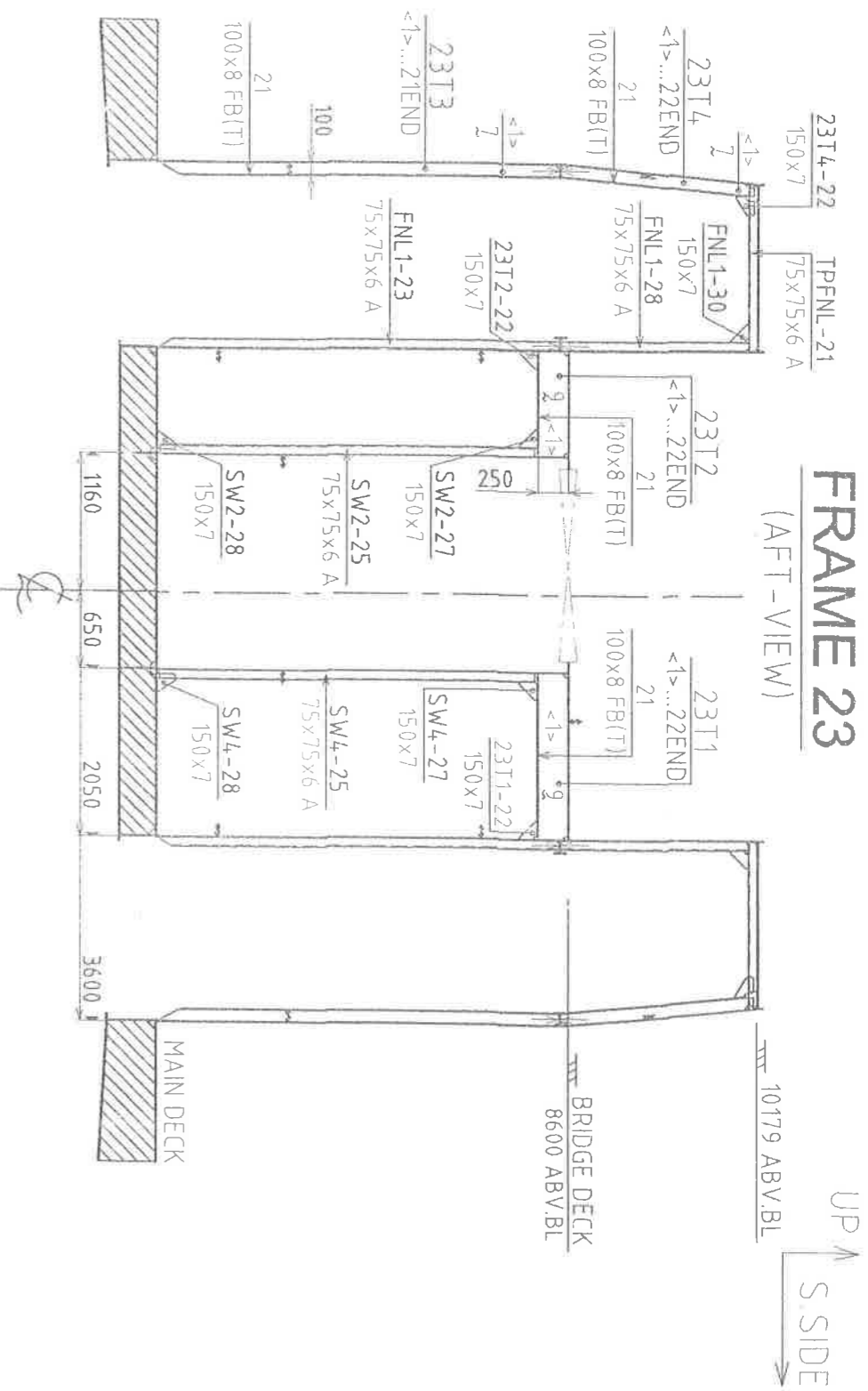
FRAME 19

(AFT - VIEW)

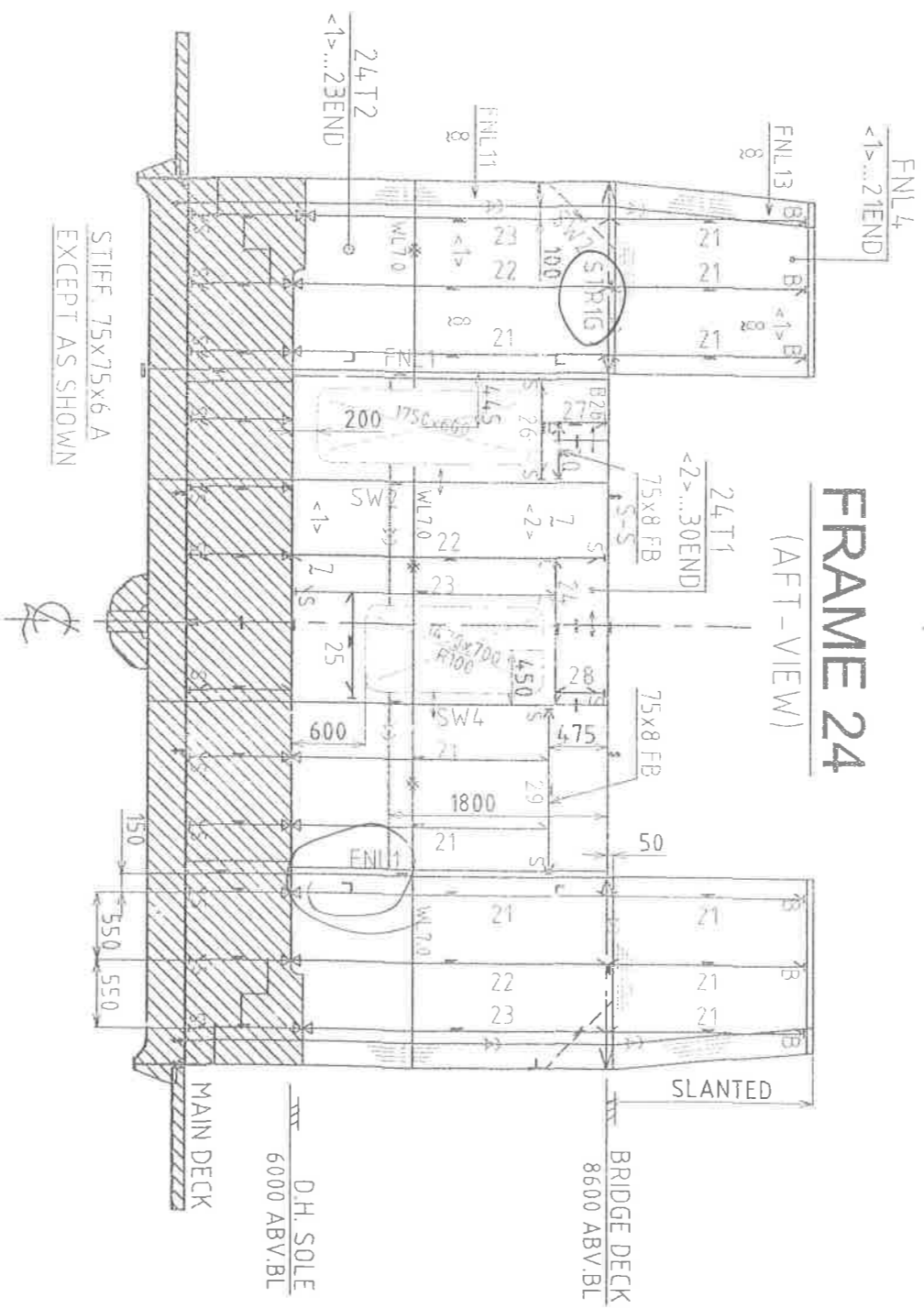


DWG. TITLE	
ASSEMBLY DRAWING B05	
HULL NO.	159
DWG NO.	000.102.B05
SCALE	1:50
REVISION	1
SHEET	11 OF 18

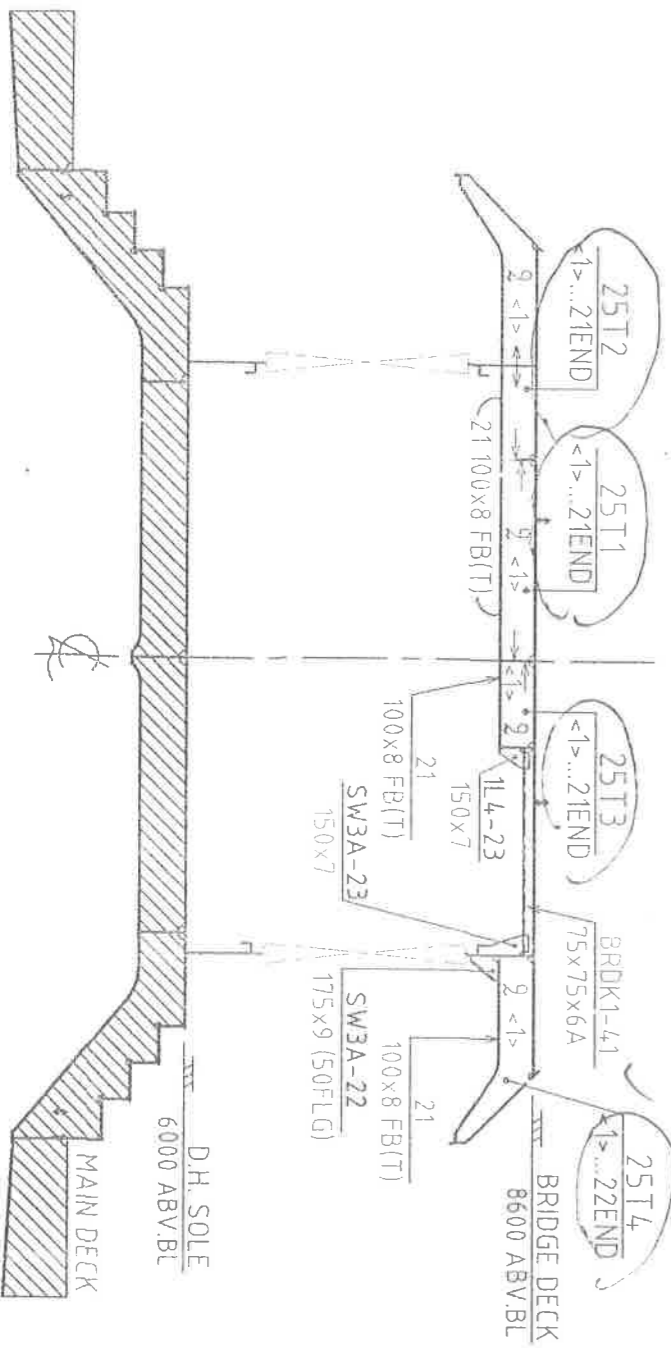
FRAME 23 (AFT - VIEW)



FRAME 24 (AFT - VIEW)



FRAME 25 (AFT - VIEW)

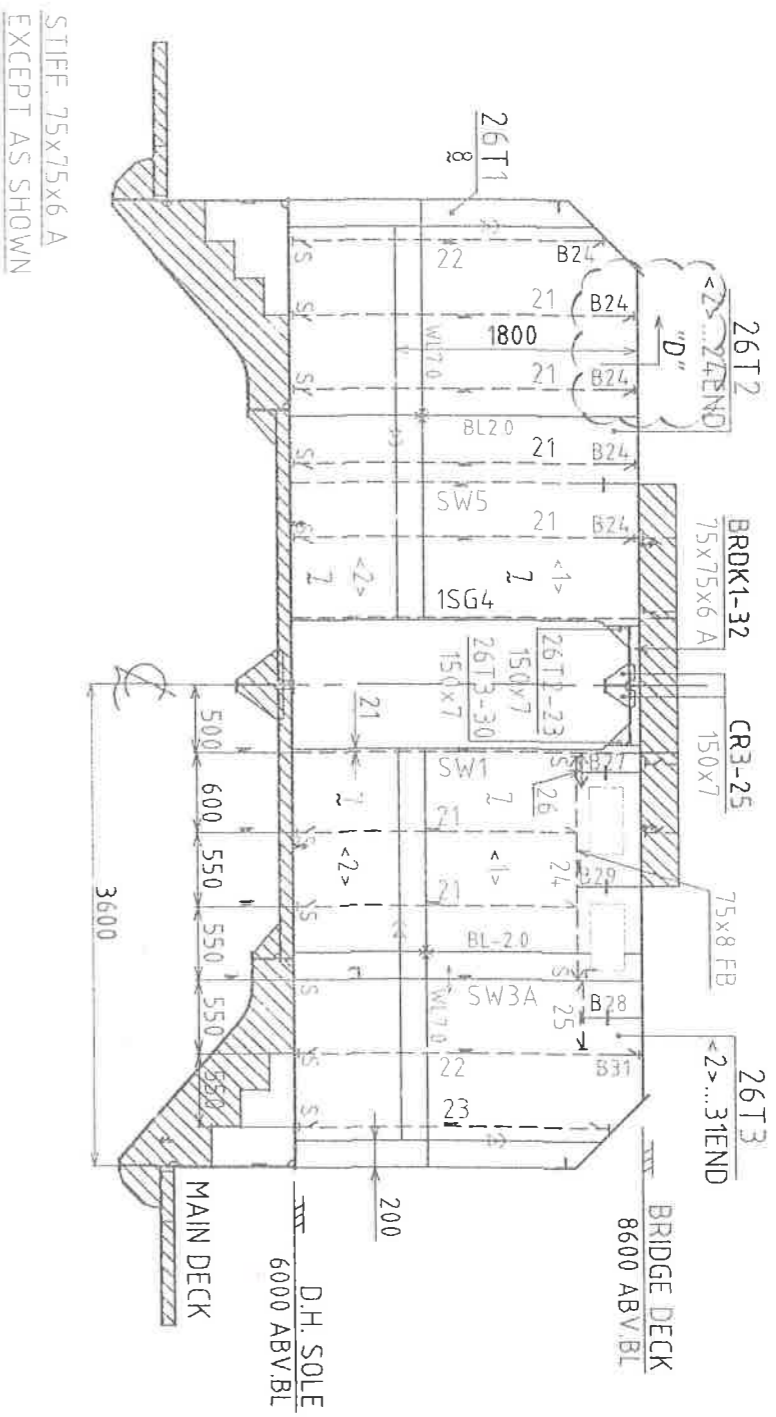


HULL NO.	159
DWG NO.	000.102.B05
SCALE	1:60
REVISION	1 2 3 4 5
SHEET	12 OF 13

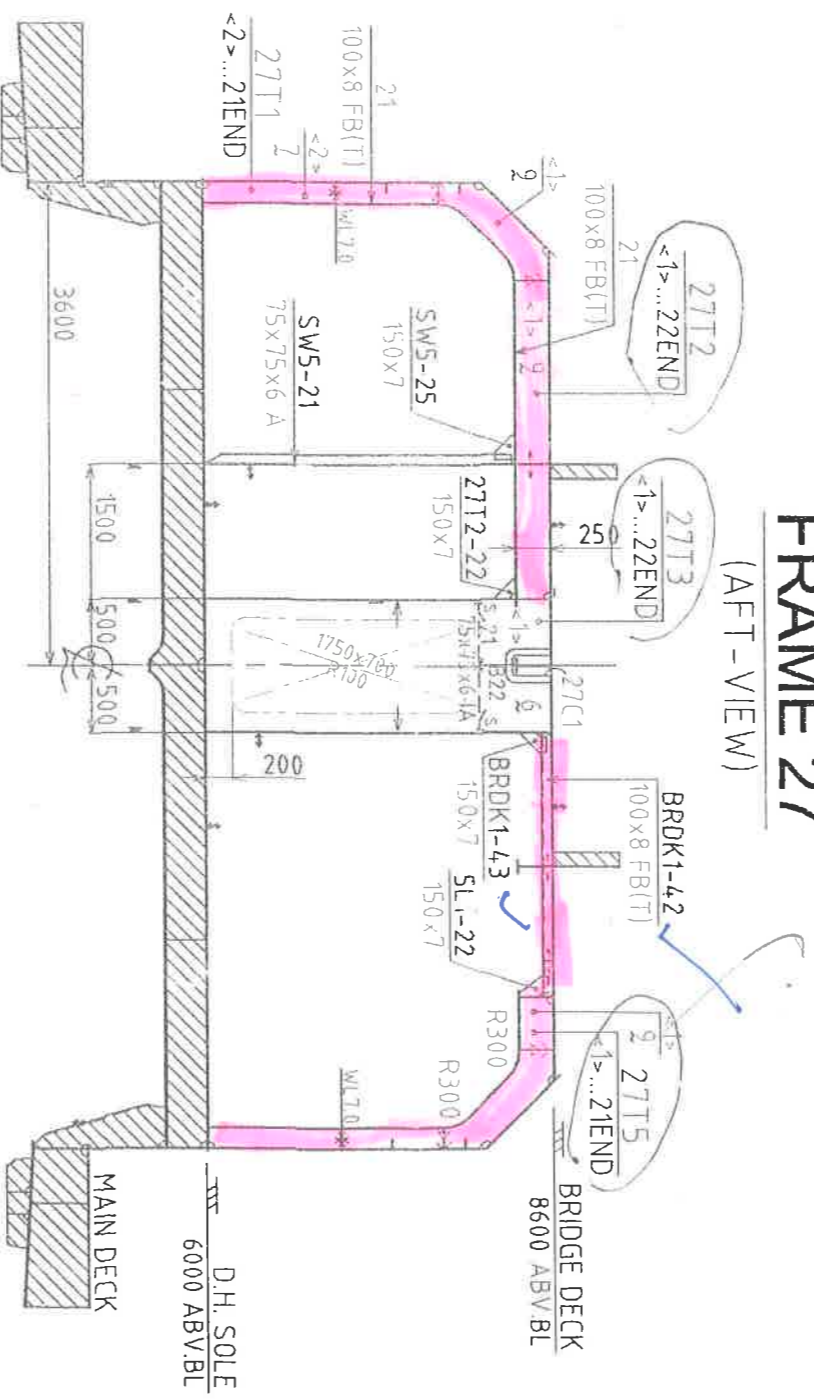
ASSEMBLY DRAWING B05

DWG. TITLE

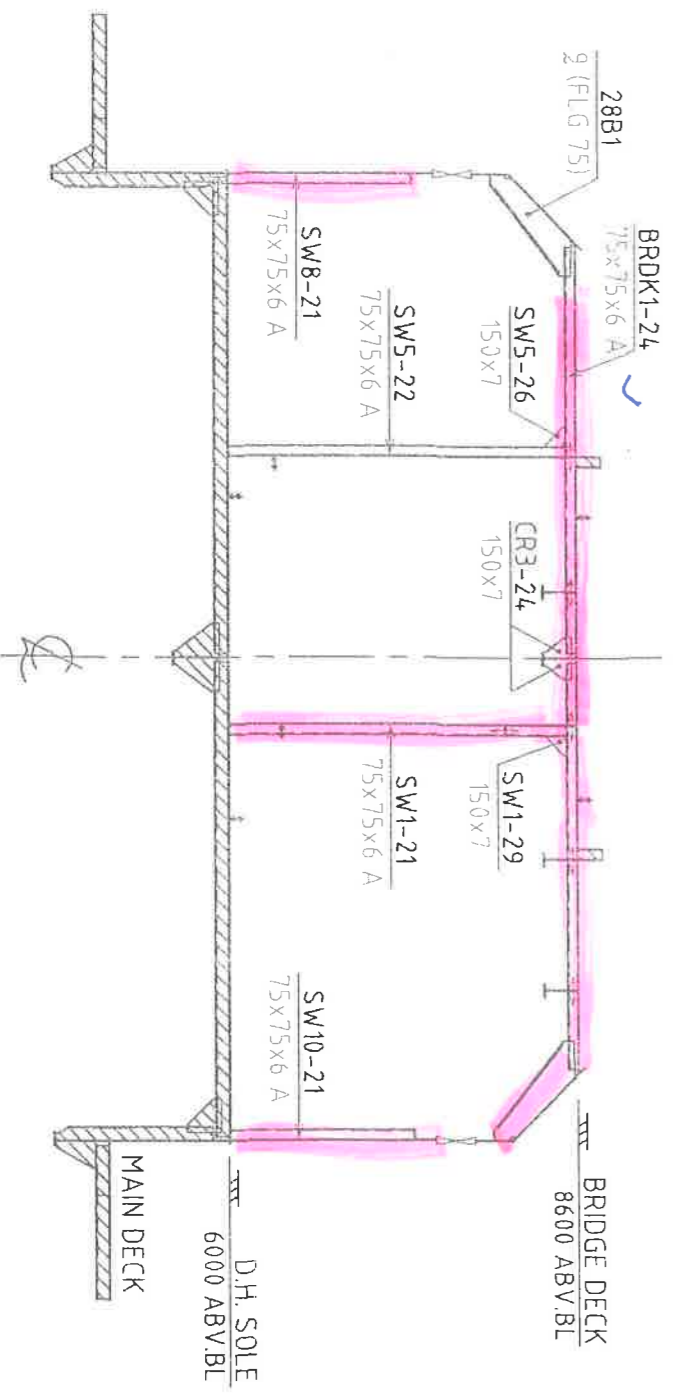
FRAME 26 (AFT - VIEW)



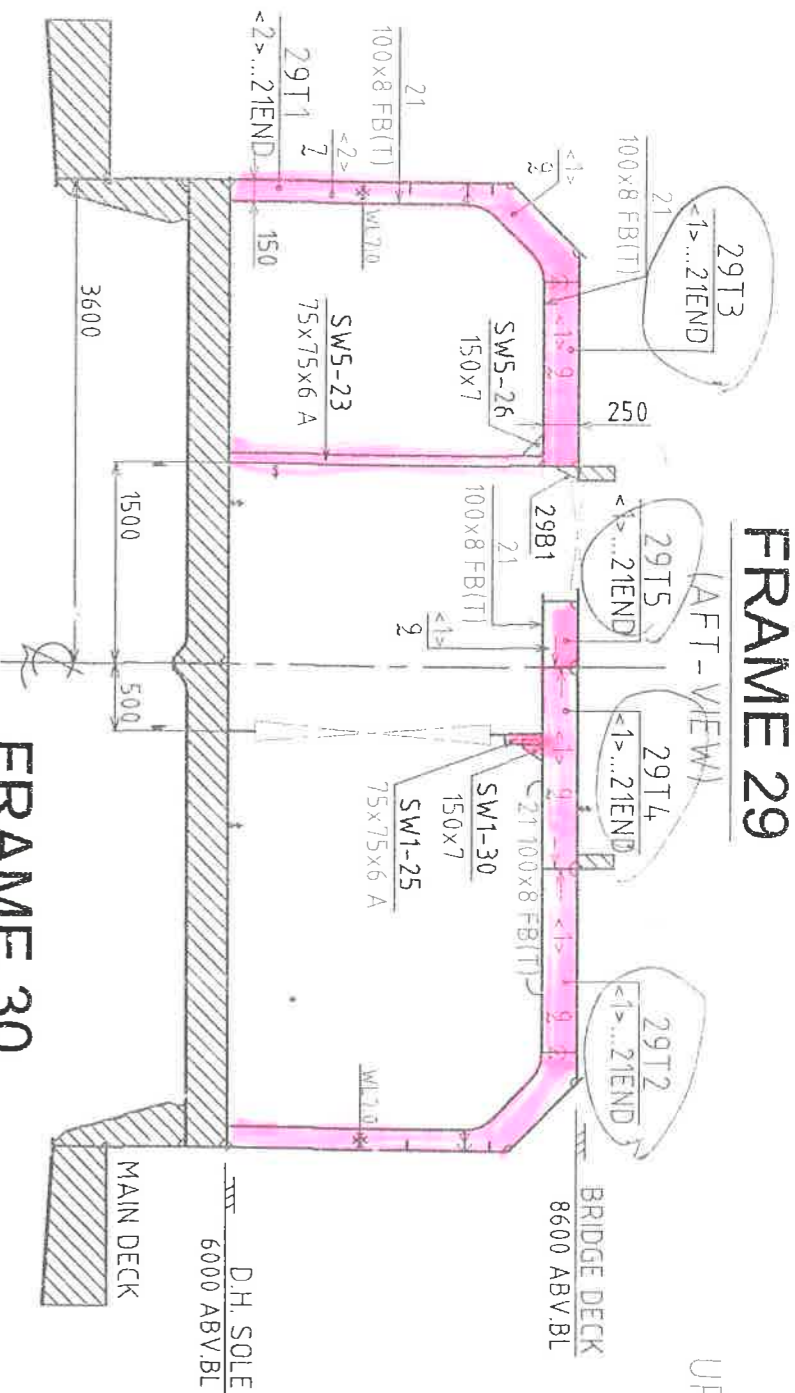
FRAME 27 (AFT - VIEW)



FRAME 28 (AFT - VIEW)



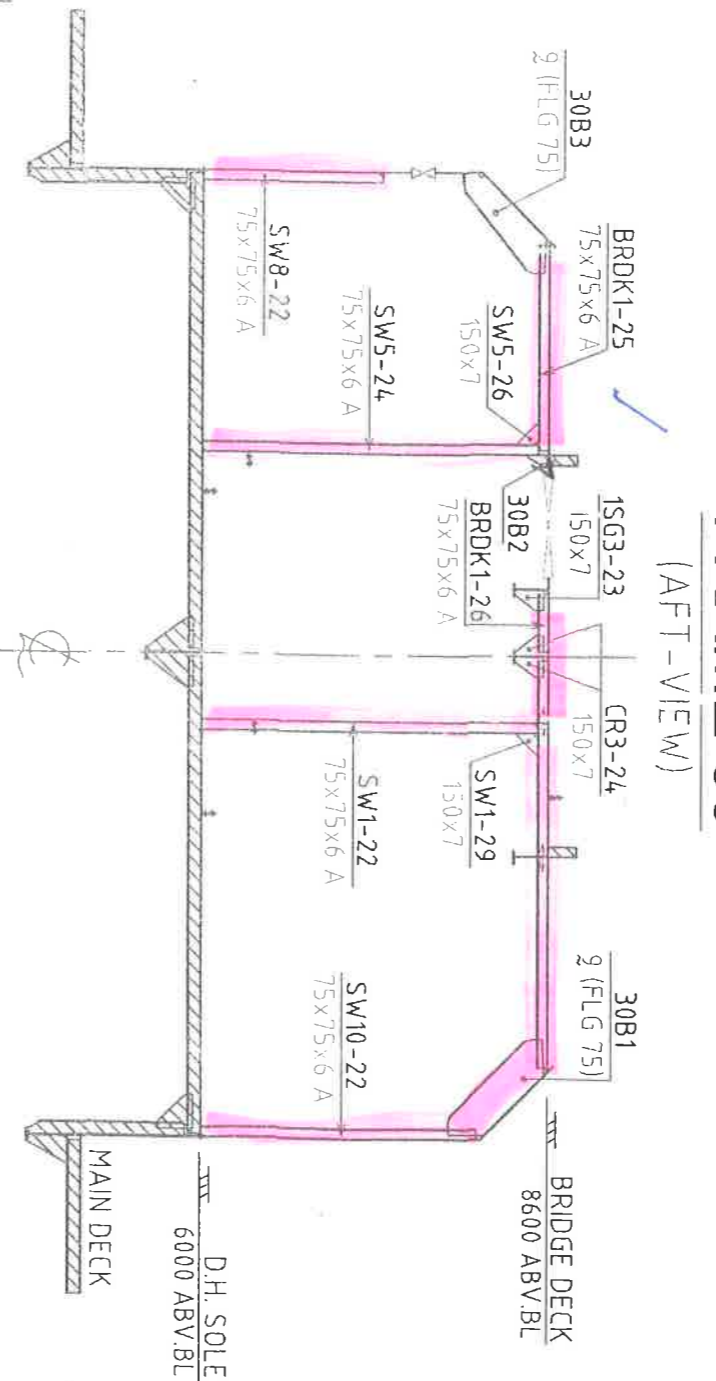
HULL NO. 159				DWG. NO. 000.132.B05				SCALE 1:60			
DWG. TITLE ASSEMBLY DRAWING B05				REVISION				SHEET 13 OF 18			



FRAME 29

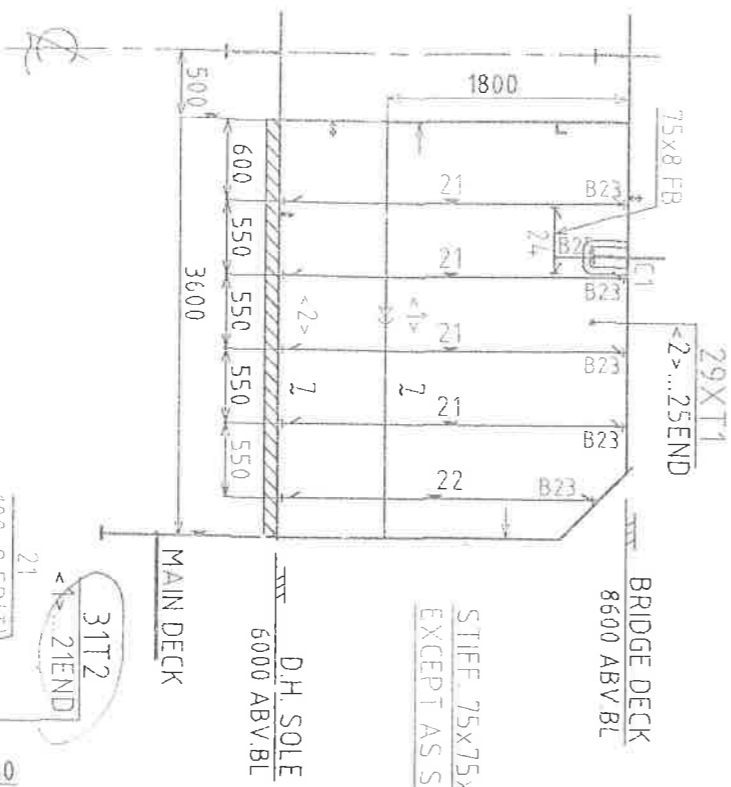
(AFT - VIEW)

UP
S. SIDE



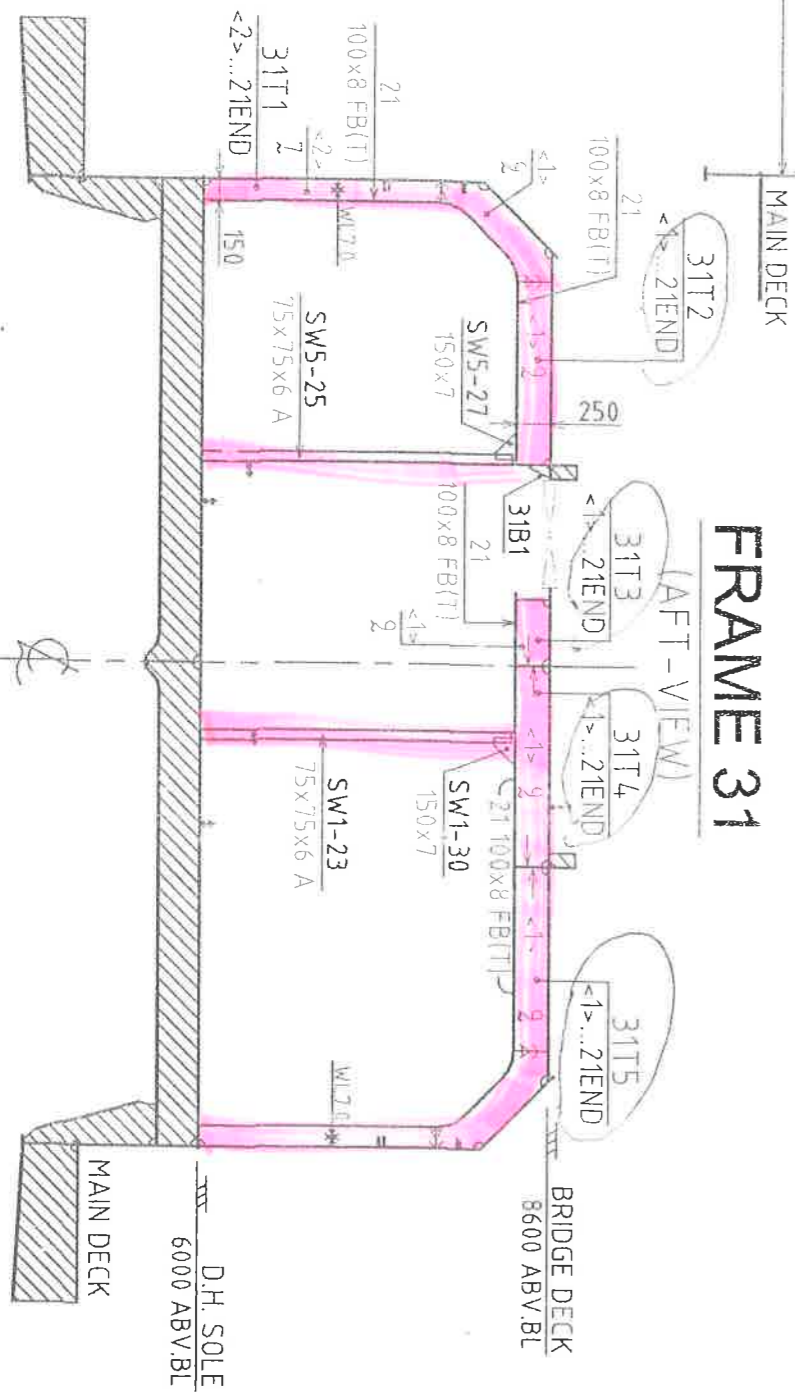
FRAME 30

(AFT - VIEW)



FRAME 29+275

(AFT - VIEW)

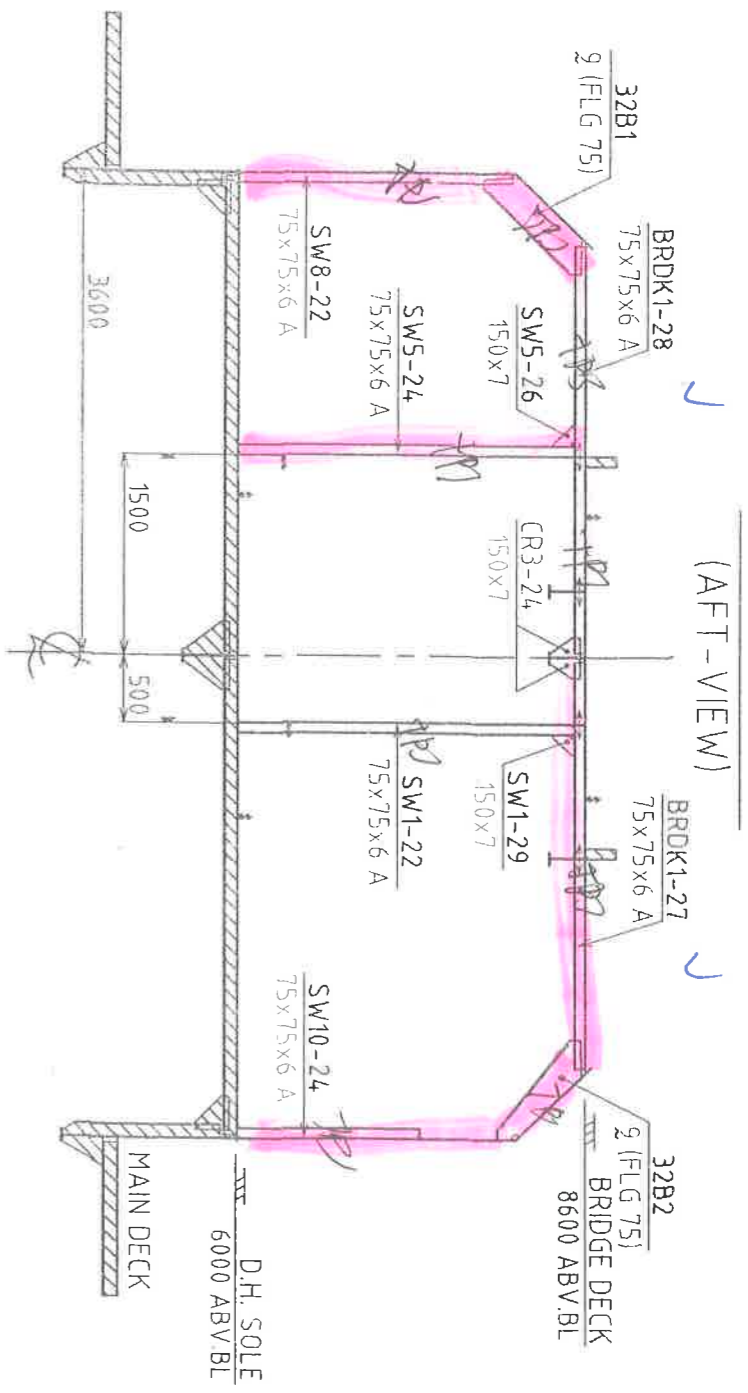


FRAME 31

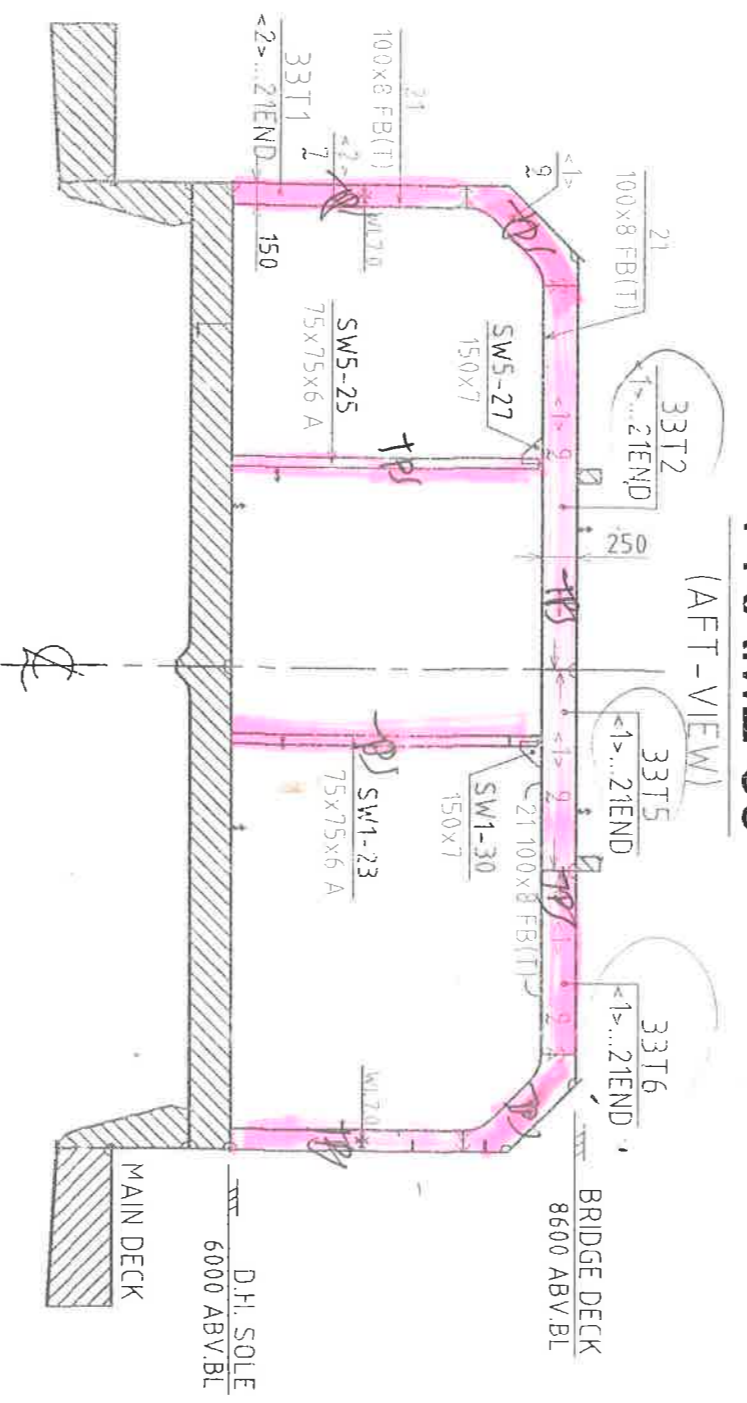
(AFT - VIEW)

HULL NO.	159
DWG. NO.	000.102.B05
SCALE	1:60
REVISION	01 12 31 4 5
SHEET	14 OF 18
DWG. TITLE	ASSEMBLY DRAWING B05

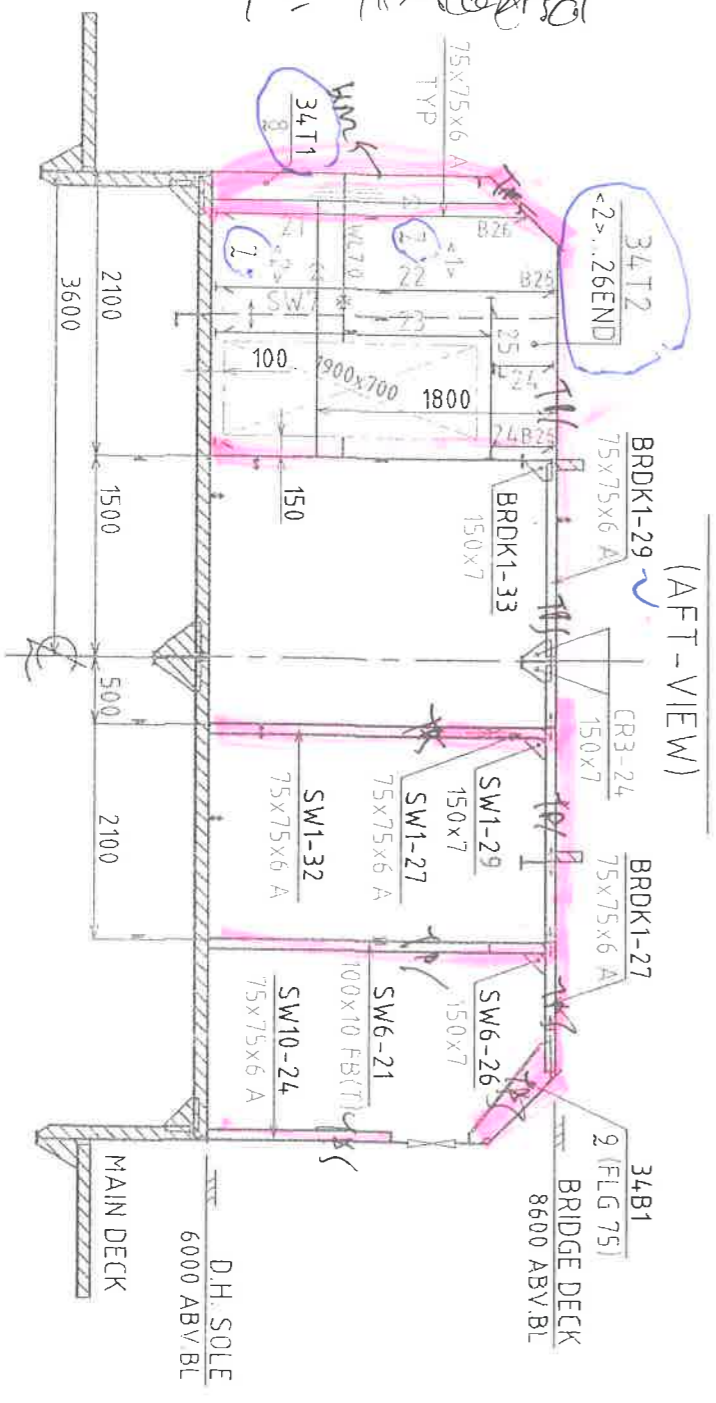
UP
S. SIDE



FRAME 32
(AFT - VIEW)



FRAME 33
(AFT - VIEW)

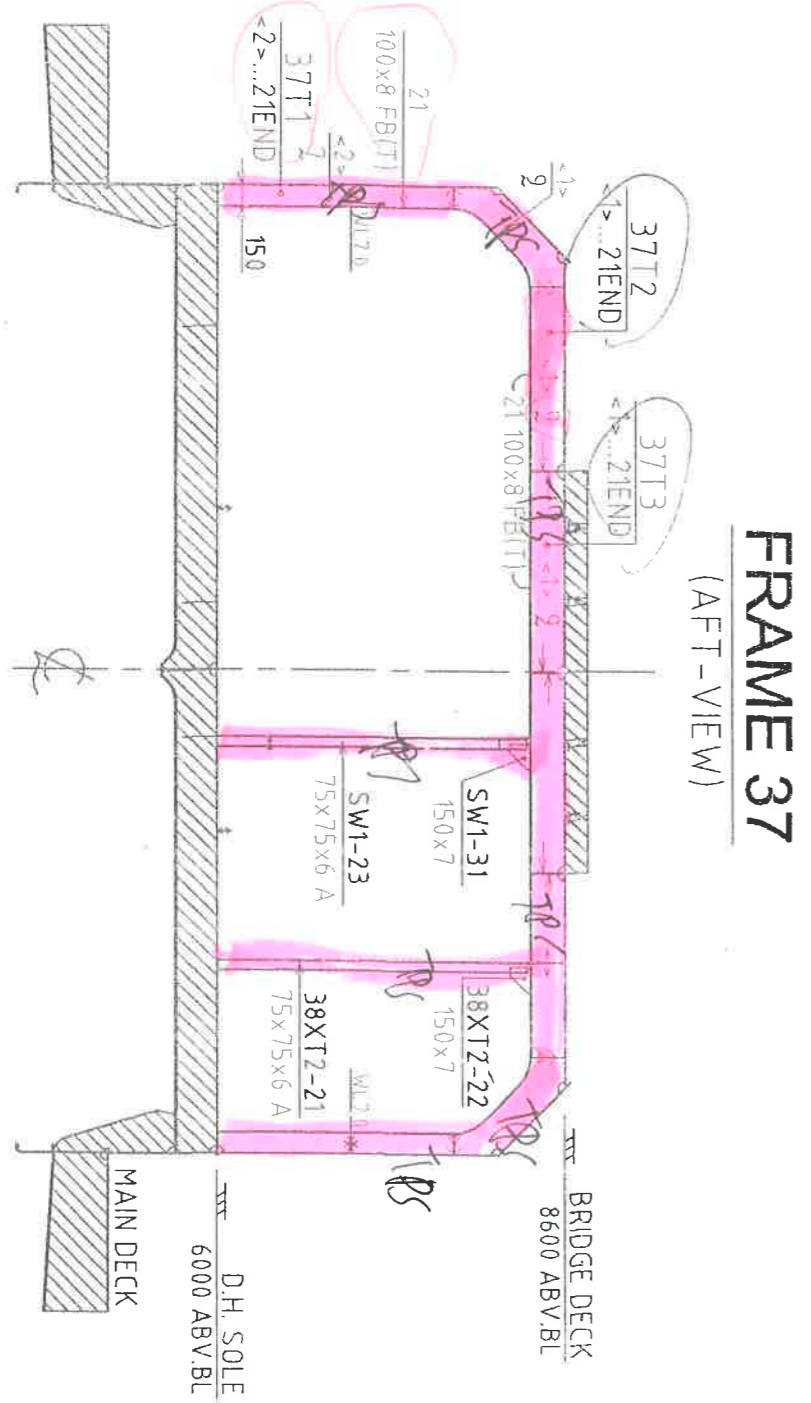
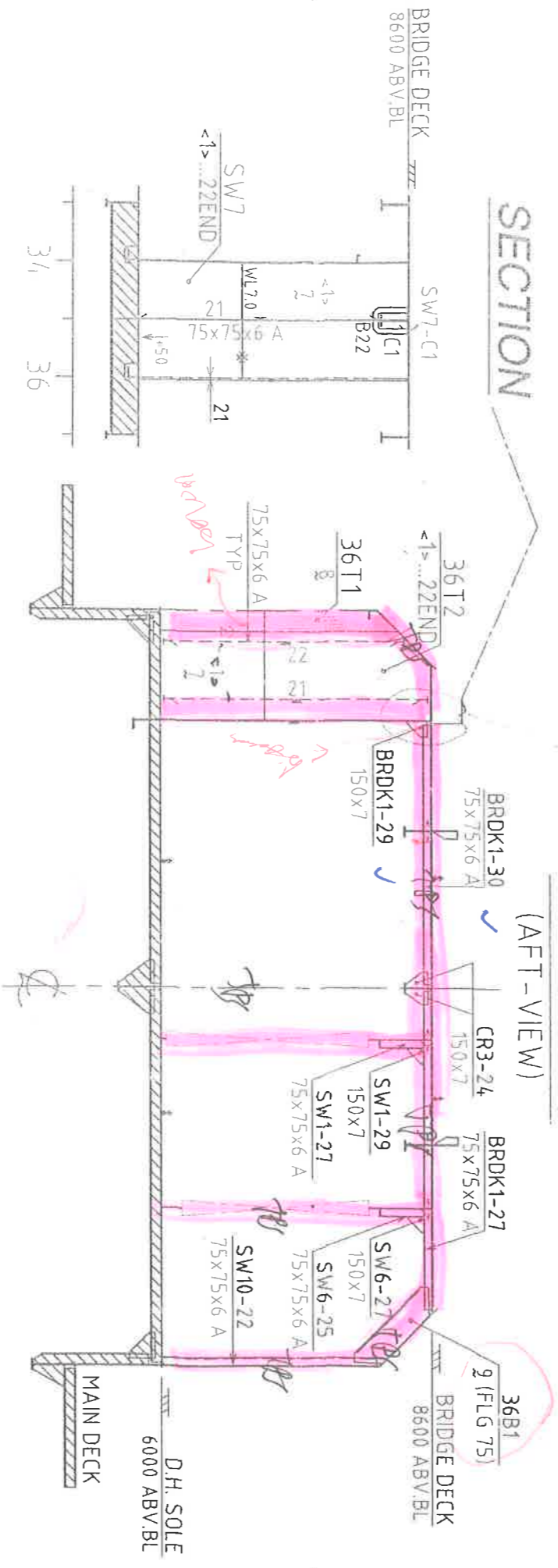
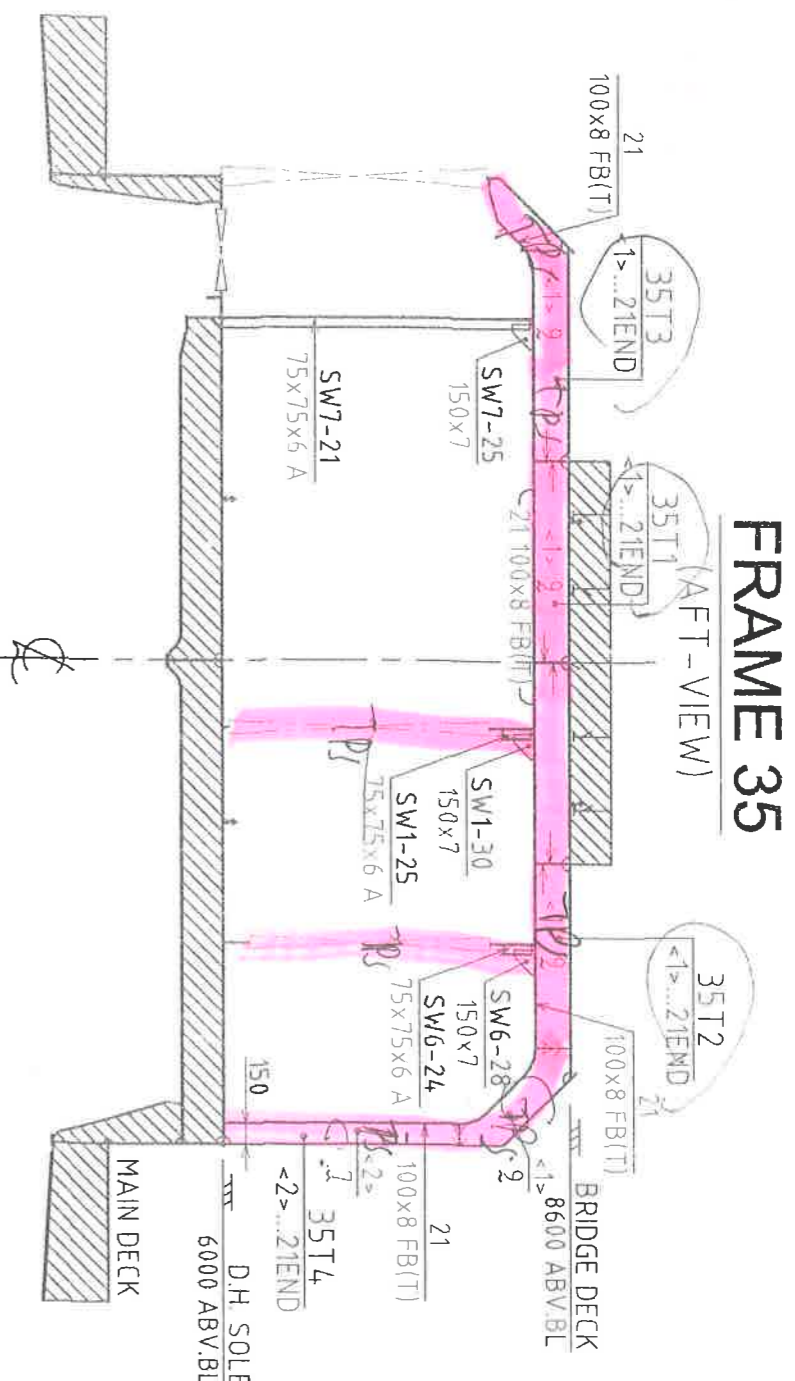


FRAME 34
(AFT - VIEW)

Handwritten note: 100x10 FB(T) = 100x10 FB(T)

DWG. TITLE		ASSEMBLY DRAWING B05	
HULL NO.	159	DWG. NO.	00C.102.505
SCALE	1:50	REVISION	01 2 3 4 5
SHEET	15 OF 18		

UP
S. SIDE



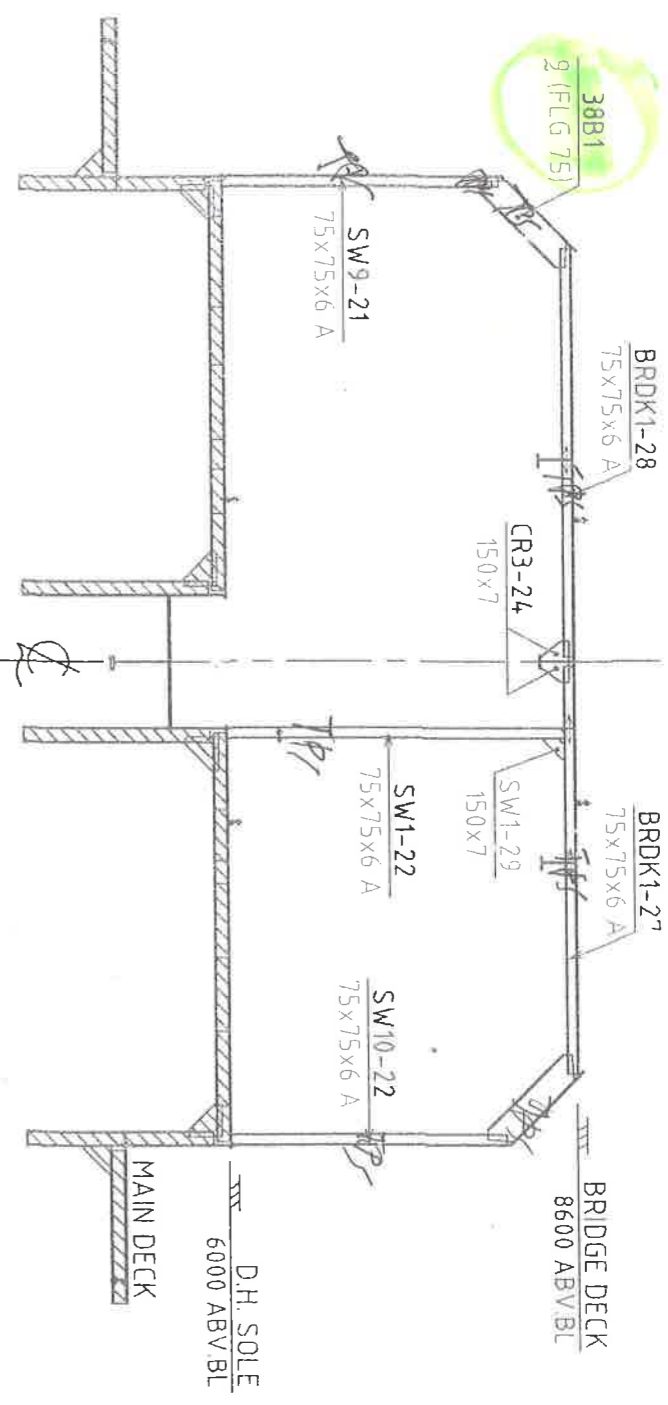
HULL NO.	159
DWG. NO.	000.132.B05
SCALE	1:60
REVISION	01 2 3 4 5
SHEET	16 OF 16

ASSEMBLY DRAWING B05
DWG. FILE

UP
S. SIDE

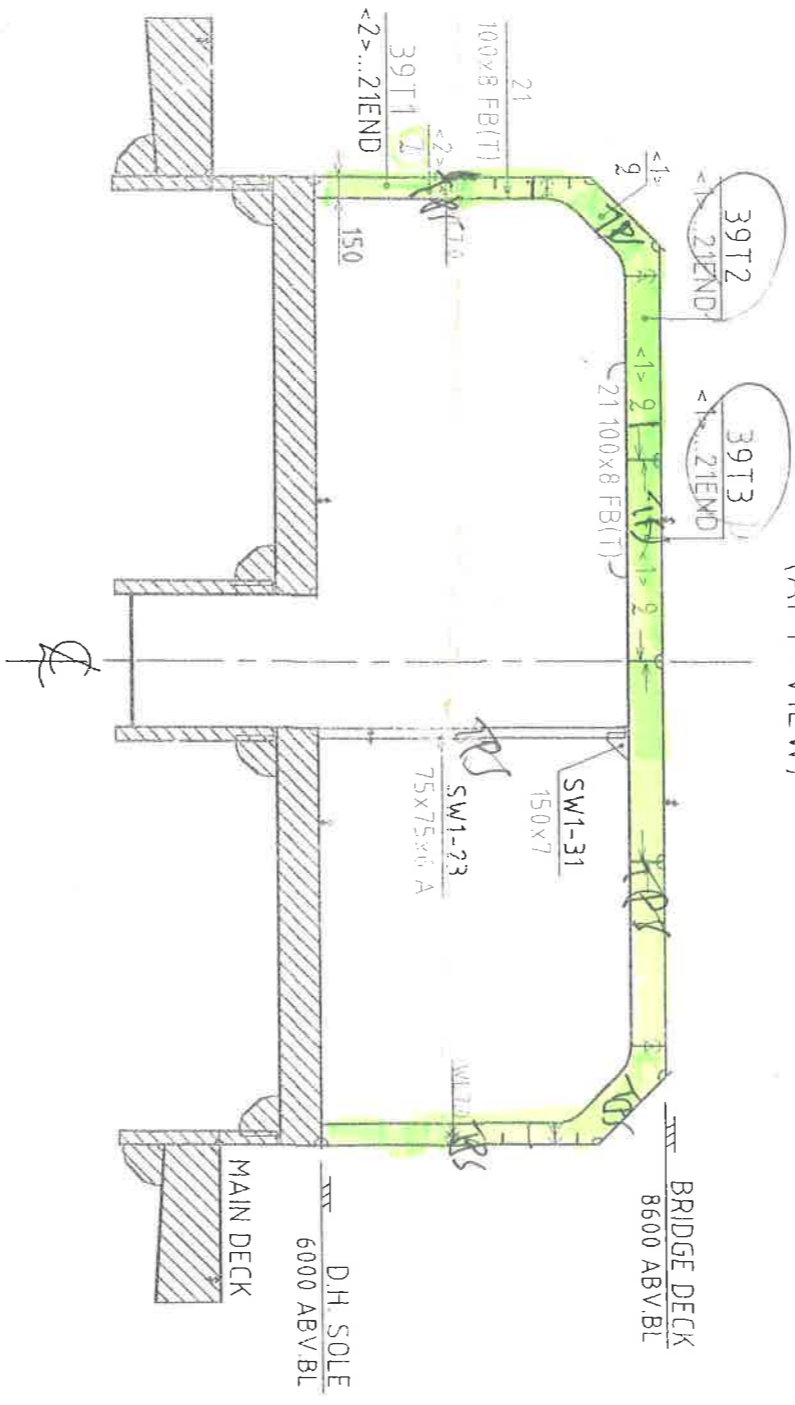
FRAME 38

(AFT - VIEW)



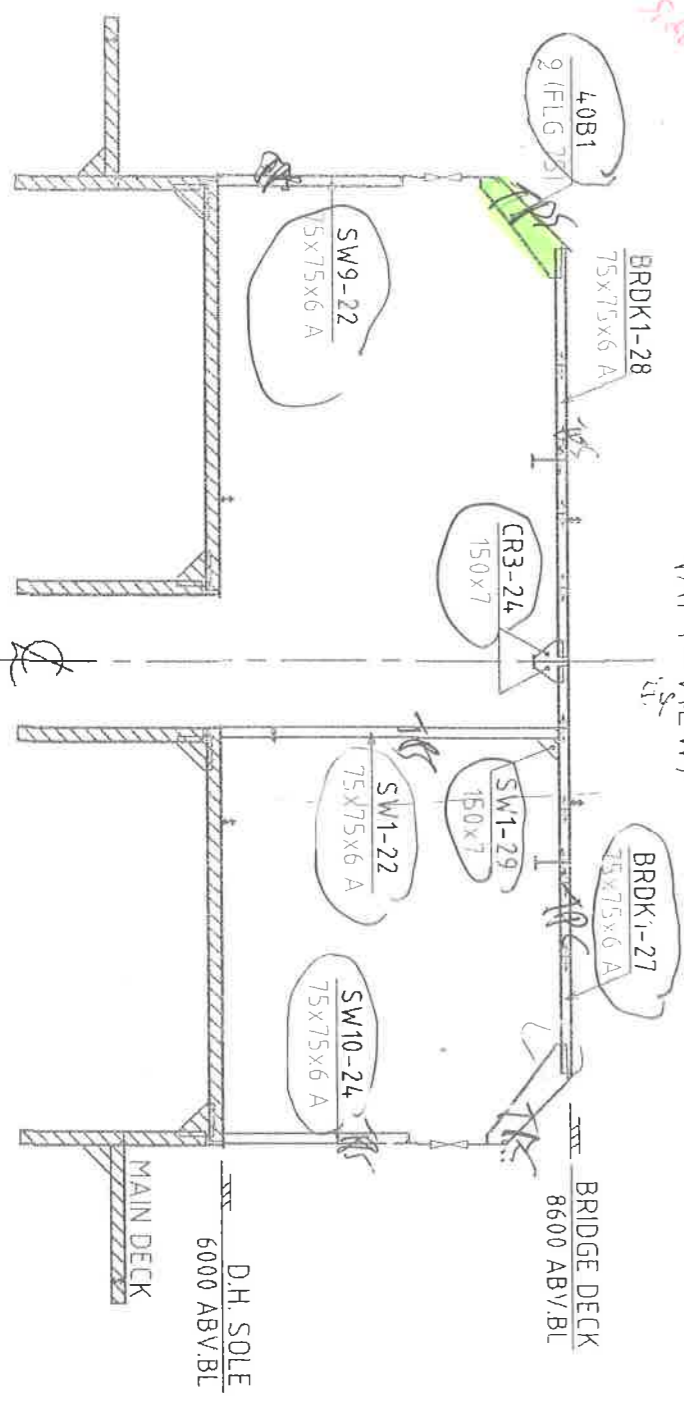
FRAME 39

(AFT - VIEW)



FRAME 40

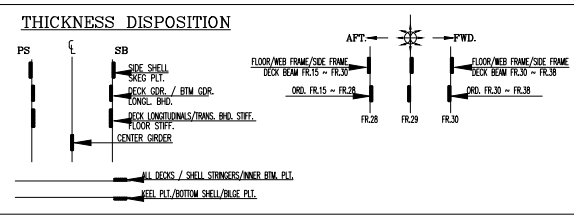
(AFT - VIEW)



*Red Side Bar
Black Side Bar*

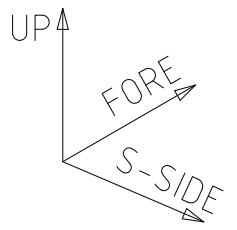
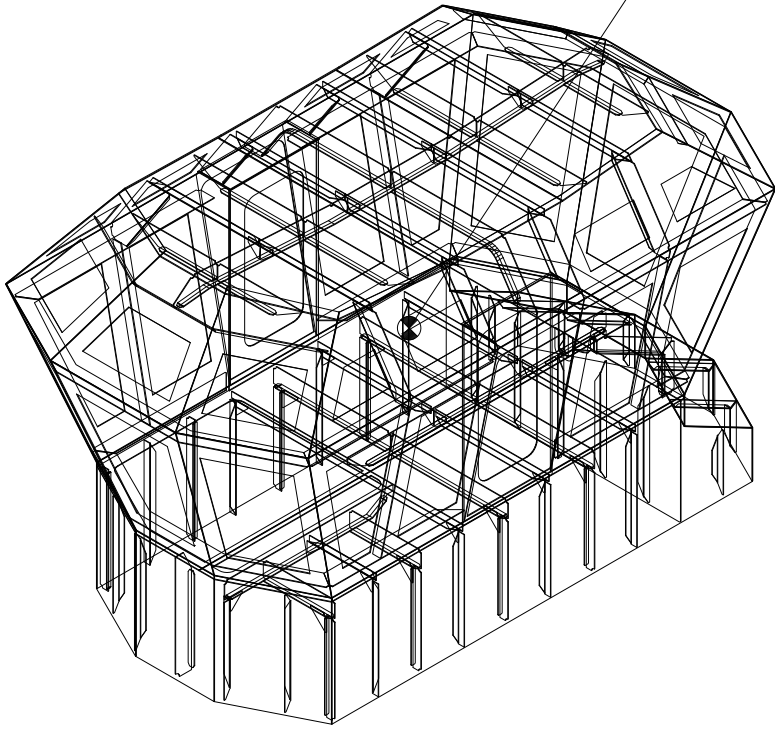
DWC. TITLE		ASSEMBLY DRAWING B05	
HULL NO. 159		DWC NO. 000.102.B05	
SCALE 1:60		REVISION	
SHEET		17 OF 18	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



LIFTING INFORMATION

X=FR31+219
 Y=-18
 Z=11005
 Wt=7339kg

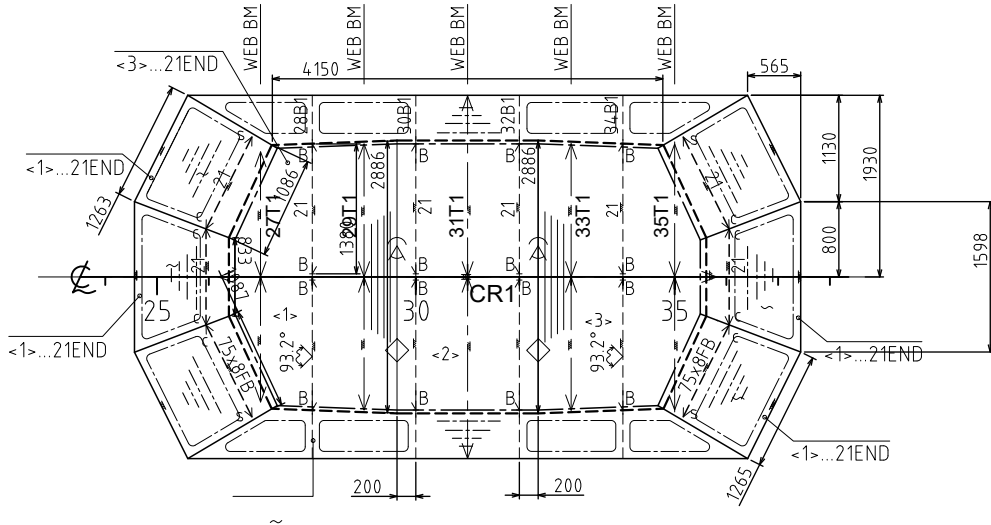


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

	DWG. TITLE				
	ASSEMBLY DRAWING B06				
HULL NO. TB101/TB102/ TB103/TB105	DWG NO. P-15-02A	SCALE 1:40	REVISION 1 2 3 4 5	SHEET 2 OF 12	

TOP DECK

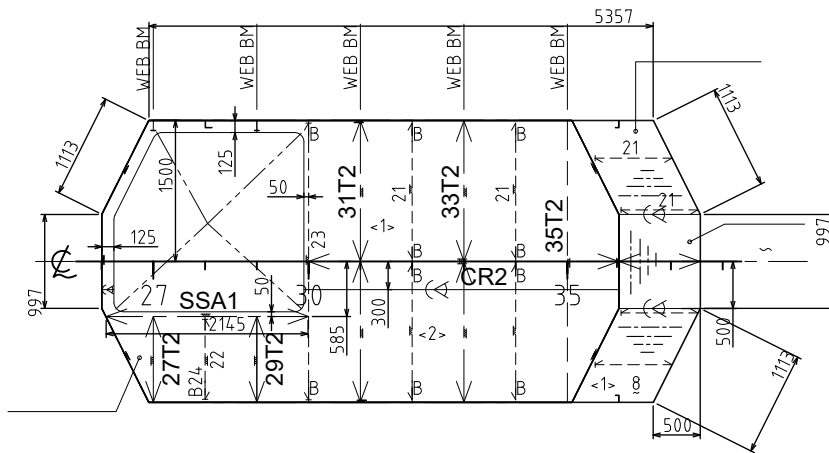
12850 ABV. BL (UP-VIEW)



FRAME SPACE	550
DECK PLATE	10
CENTER GIRDER	200 x 6 / 75 x 8 FB (T)
DECK BEAM	75 x 75 x 6 A
WEB BEAM	200 x 6 / 75 x 8 FB (T)

WHEEL HOUSE SOLE DECK

9950 ABV. BL (UP-VIEW)



FRAME SPACE	550
DECK PLATE	7
CENTER GIRDER	200 x 6 / 75 x 8 FB (T)
DECK BEAM	75 x 75 x 6 A
WEB BEAM	200 x 6 / 75 x 8 FB (T)



TERAPILUK
MEGANTARA
DESIGN

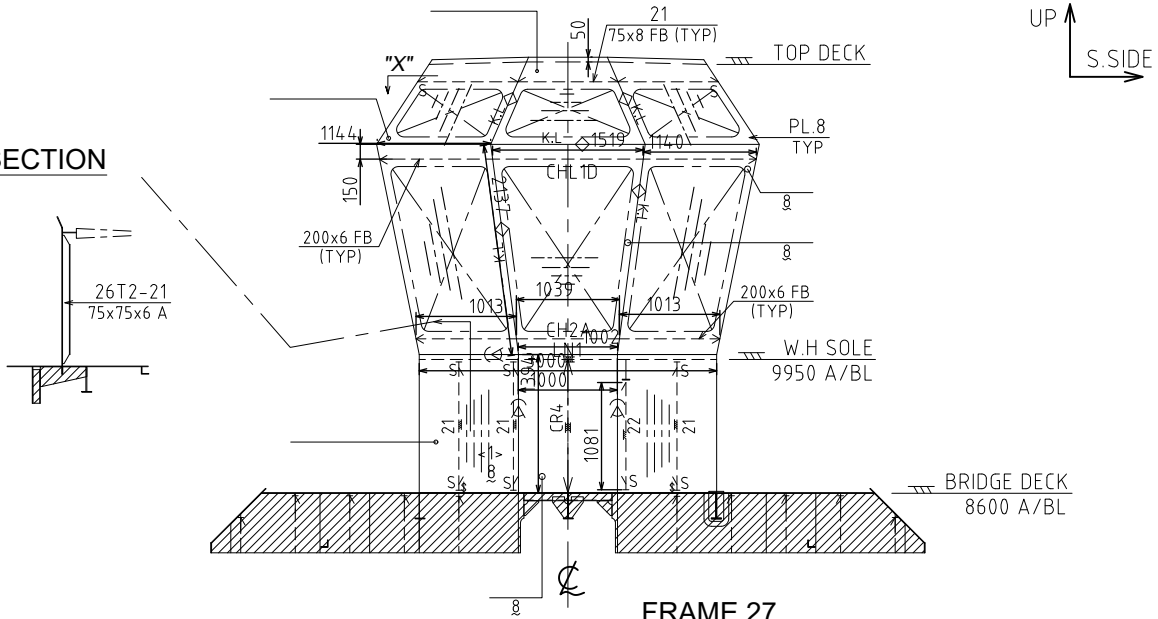
DWG. TITLE

ASSEMBLY DRAWING B06

HULL NO. 18101/18102 / 18103/18105
 DWG NO. P-15-02A
 SCALE 1:50
 REVISION 01 2 3 4 5
 SHEET 3 OF 12

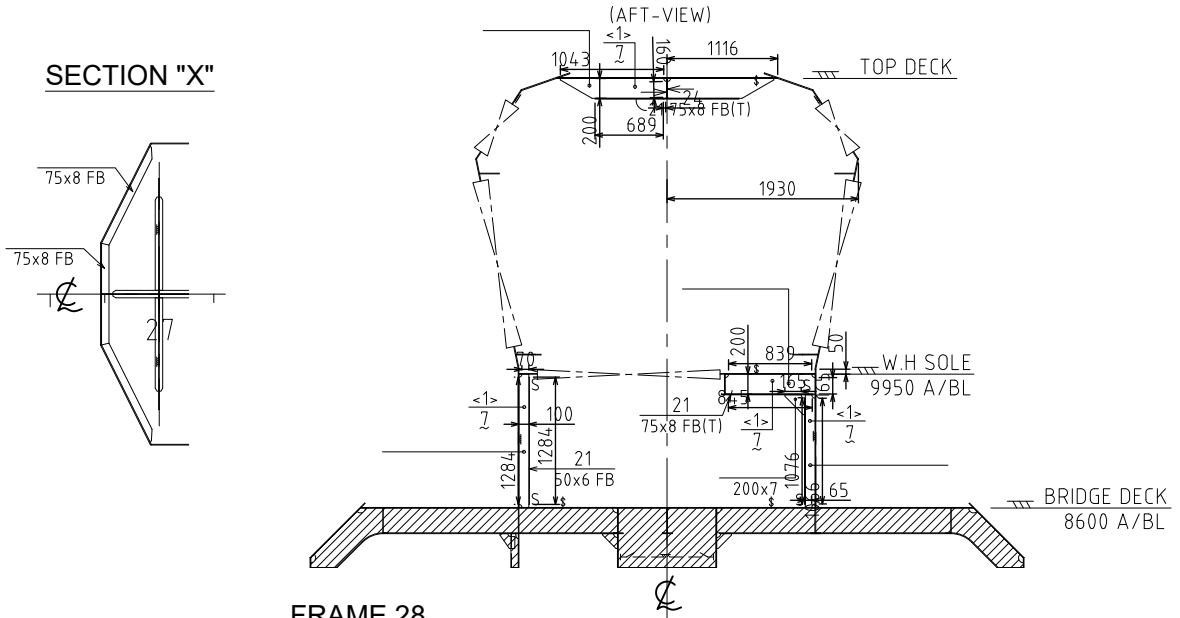
FRAME 26
(AFT-VIEW)

SECTION

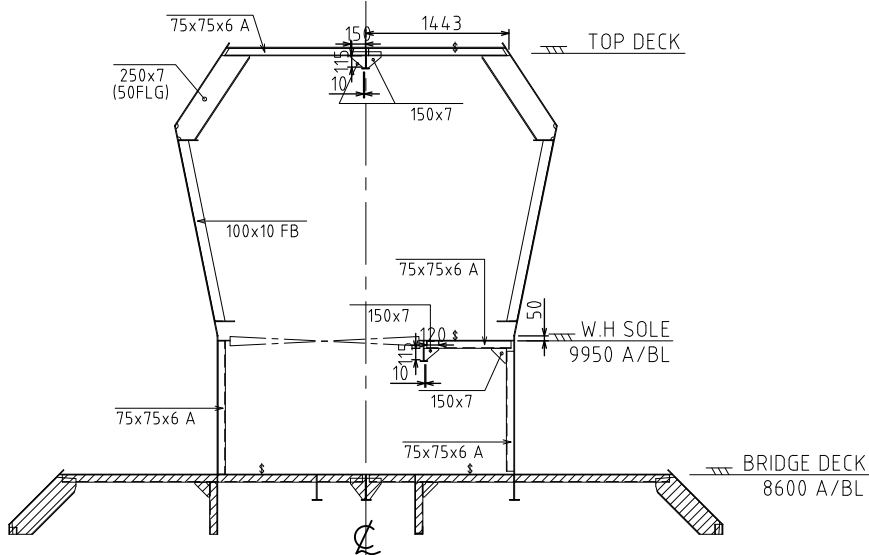


FRAME 27
(AFT-VIEW)

SECTION "X"



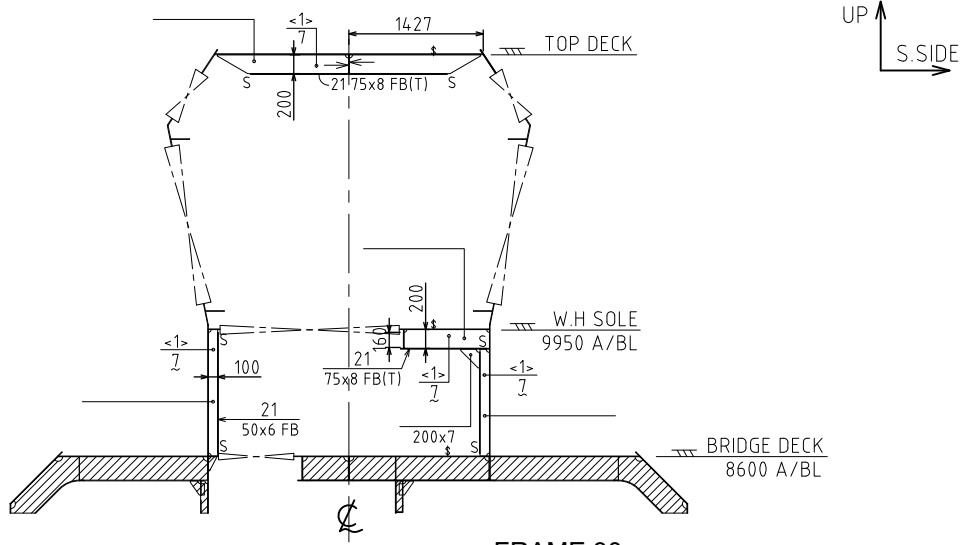
FRAME 28
(AFT-VIEW)



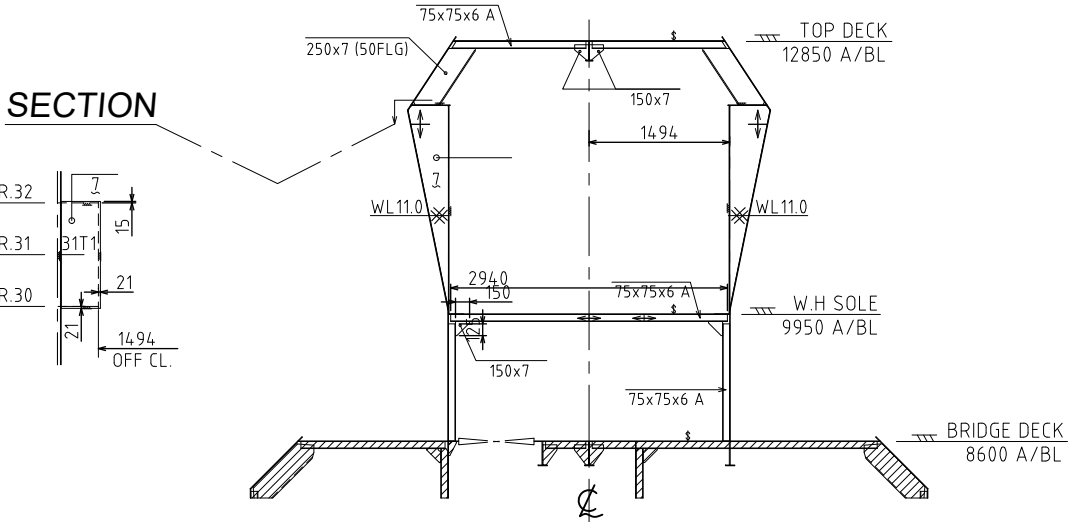
**TERAPIK
MEGANTARA
DESIGN**

DWG. TITLE	
ASSEMBLY DRAWING B06	
HULL NO. TB101/TB102/ TB103/TB105	DWG. NO. P-15-02A
SCALE 1:50	REVISION 1 2 3 4 5
SHEET 7 OF 12	

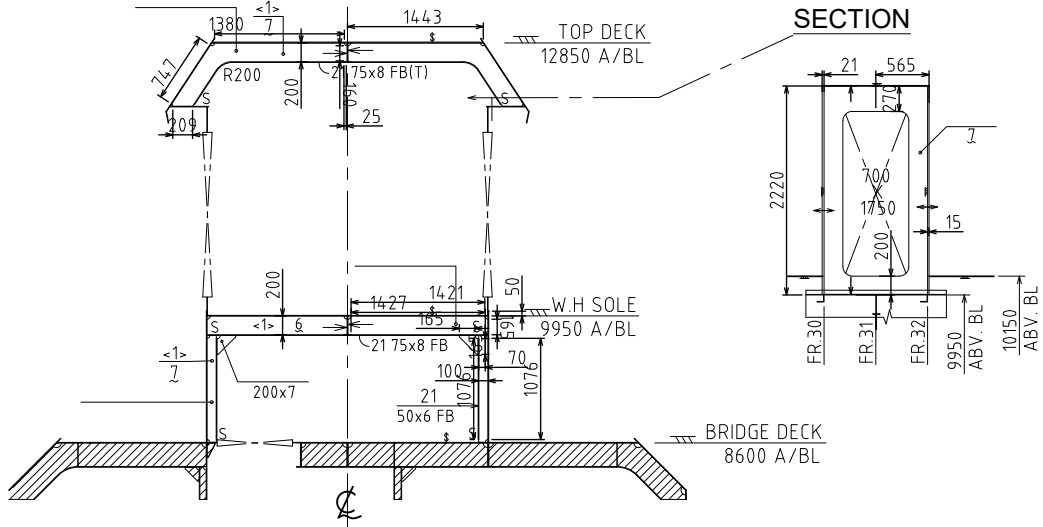
FRAME 29
(AFT-VIEW)




FRAME 30
(AFT-VIEW)

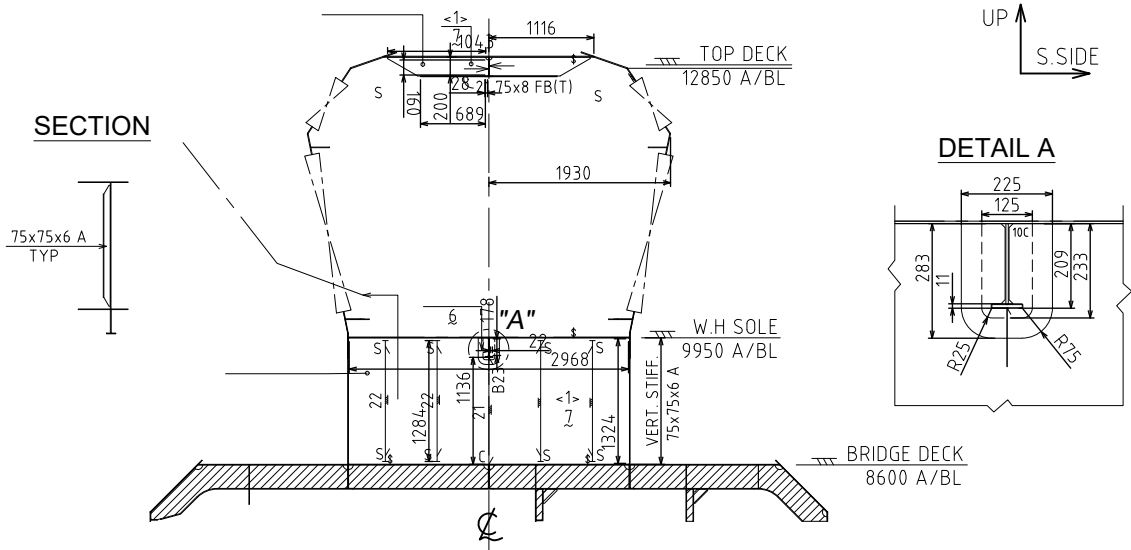


FRAME 31
(AFT-VIEW)

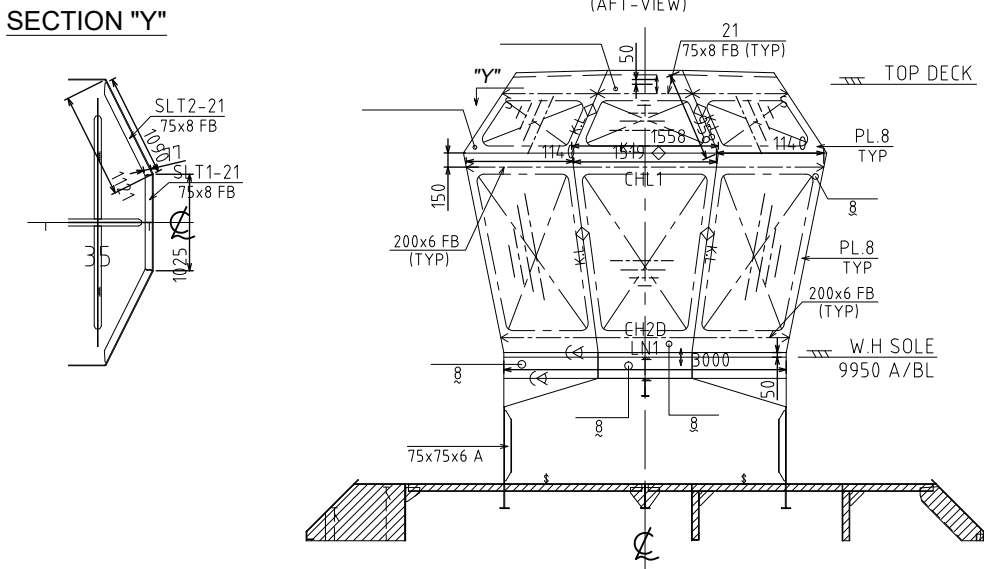


 <p>TERAPILK MEGANTARA DESIGN</p>	DWG. TITLE	
	ASSEMBLY DRAWING B06	
	HULL NO. TB101/TB102/ TB103/TB105	DWG. NO. P-15-02A
SCALE	1:50	REVISION
		SHEET
		8 OF 12

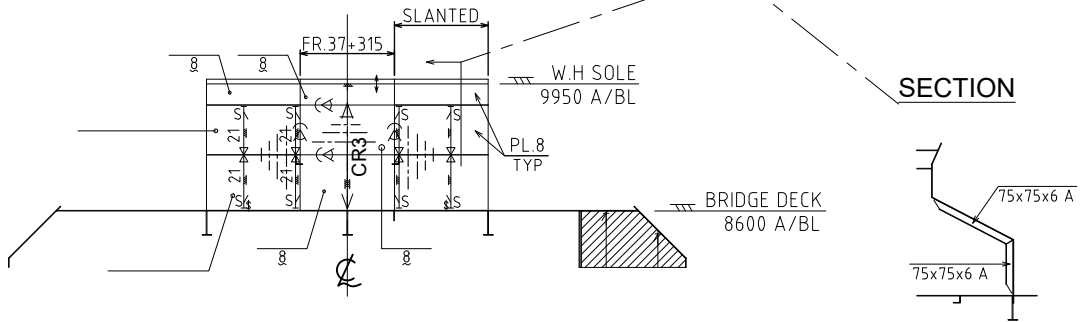
FRAME 35
(AFT-VIEW)




FRAME 36
(AFT-VIEW)



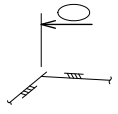
FRAME 37+315
(AFT-VIEW)



 TERAPILUK MEGANTARA DESIGN	DWG. TITLE
	ASSEMBLY DRAWING B06
	HULL NO. / 18101/18102/ 18103/18105
	DWG. NO. P-15-02A
SCALE 1:50	REVISION 01 2 3 4 5
SHEET 10 OF 12	

CENTER SECTION

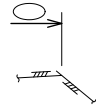
DETAIL "P1"



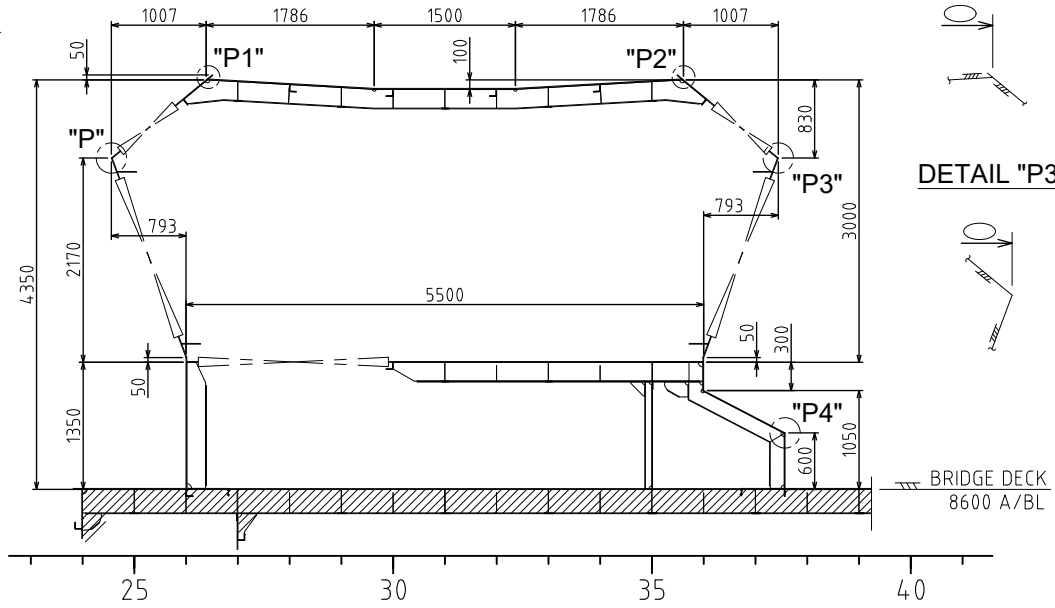
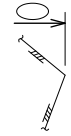
DETAIL "P"



DETAIL "P2"



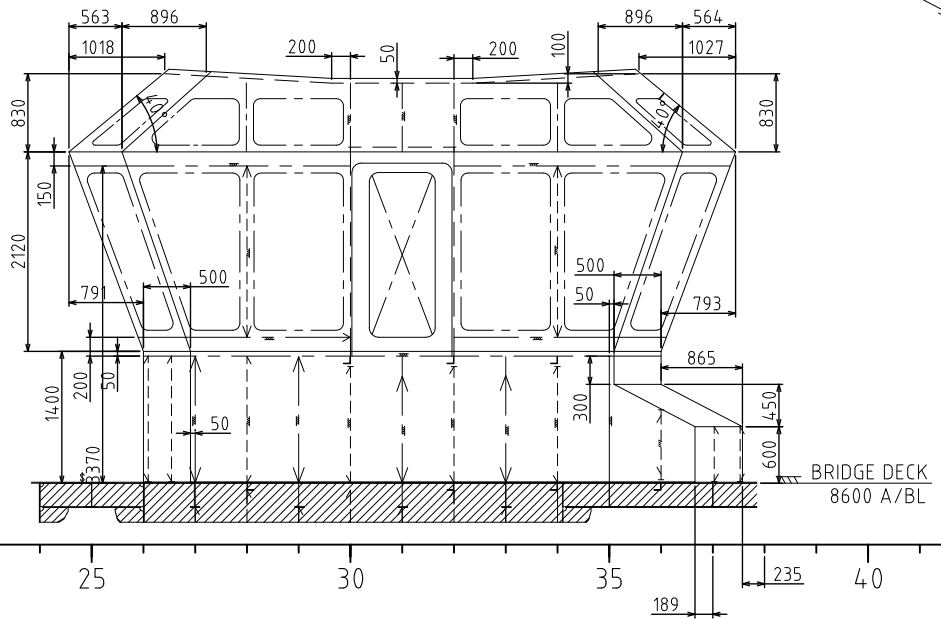
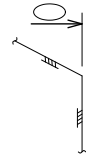
DETAIL "P3"



OUT BOARD SECTION

(S-VIEW)

DETAIL "P4"



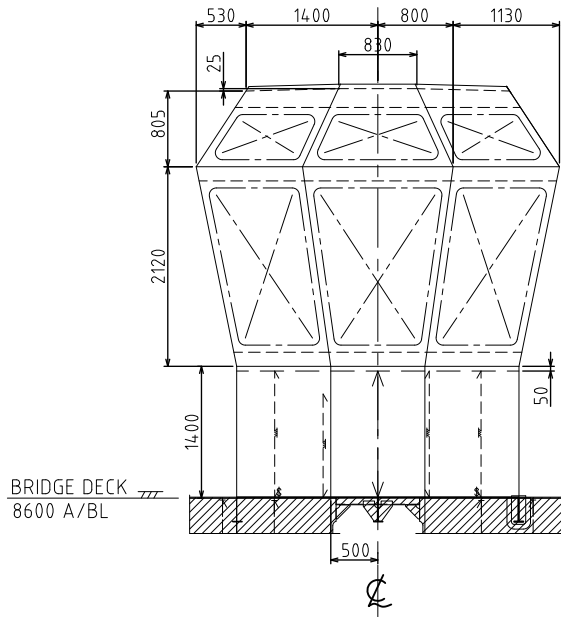
TERAPILUK
MEGANTARA
DESIGN

DWG. TITLE

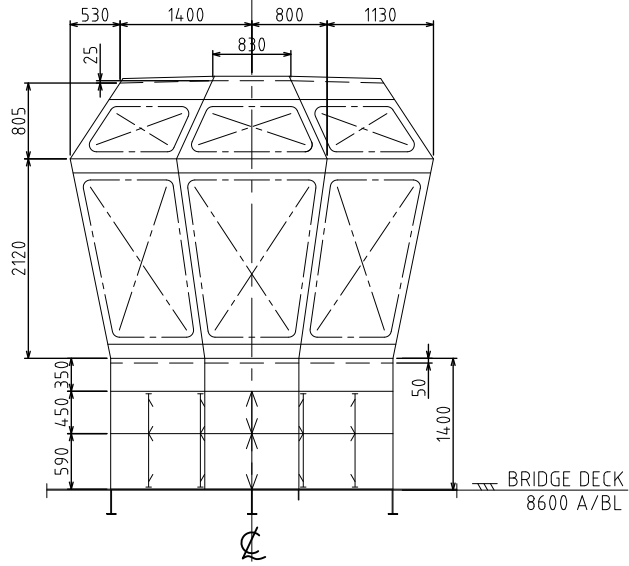
ASSEMBLY DRAWING B06

HULL NO. TB101/TB102/ TB103/TB105	DWG NO. P-15-02A	SCALE 1:50	REVISION 0 1 2 3 4 5	SHEET 11 OF 12
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AFT BOARD SECTION
(AFT-VIEW)



FORE BOARD SECTION
(AFT-VIEW)



TERAPTIK
MEGANTARA
DESIGN

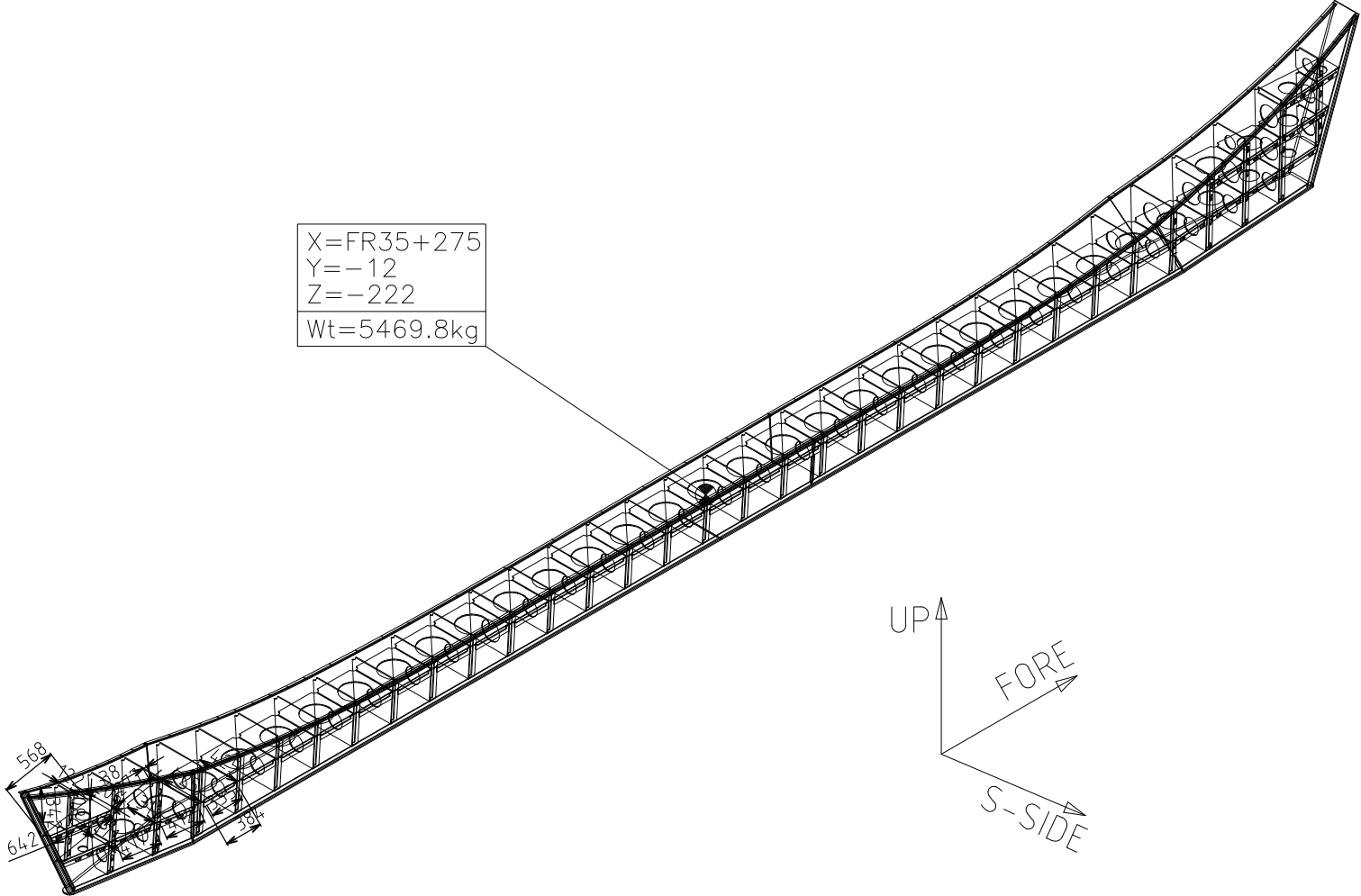
DWG. TITLE

ASSEMBLY DRAWING B06

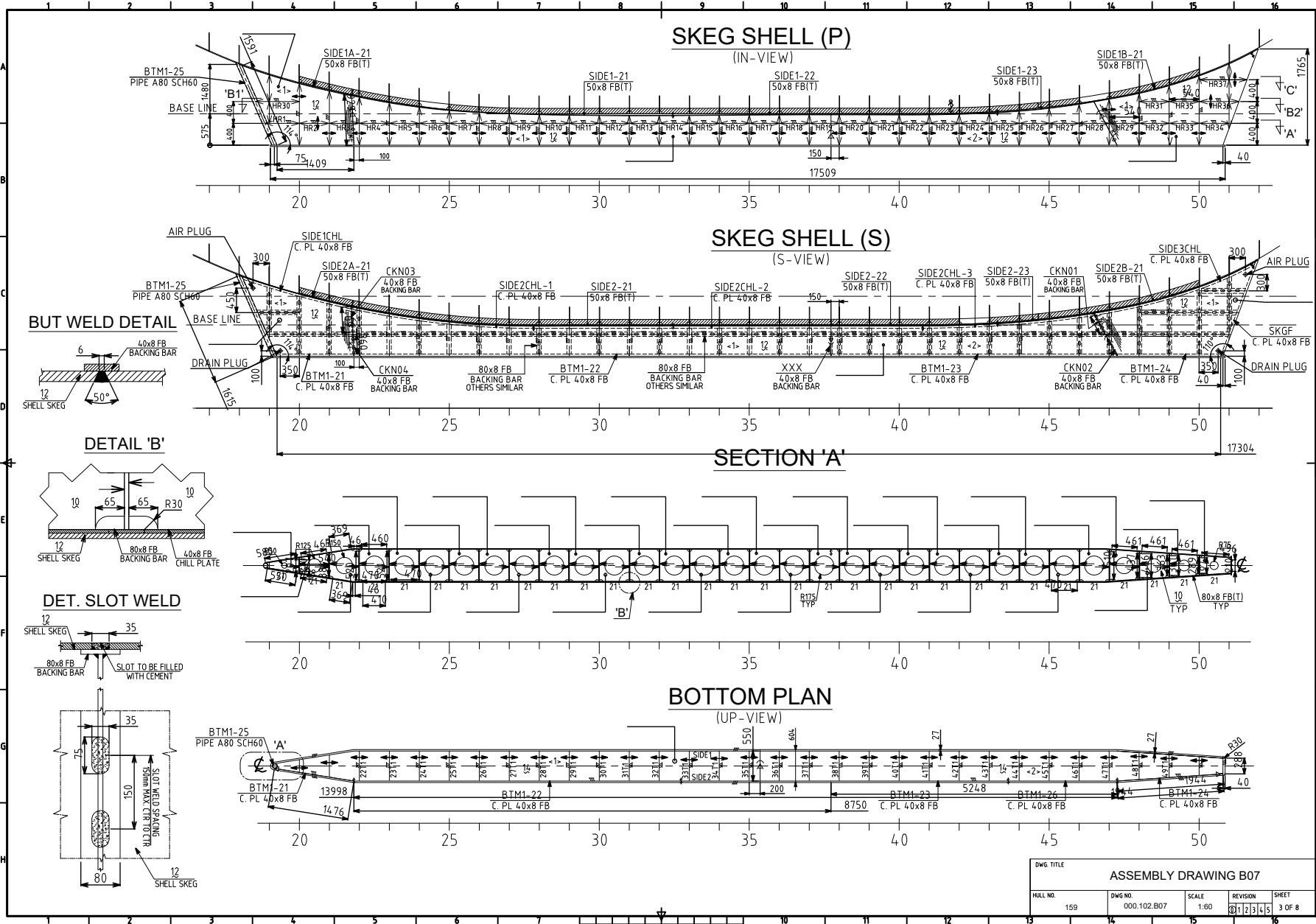
FILE NO. TB101/TB102/ TB103/TB105	DWG NO. P-15-02A	SCALE 1:50	REVISION 012345	SHEET 12 OF 12
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LIFTING INFORMATION BLOCK B07

X=FR35+275
Y=-12
Z=-222
Wt=5469.8kg



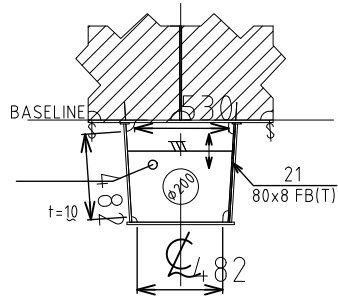
DWG. TITLE				
ASSEMBLY DRAWING B07				
WALL NO.	DWG. NO.	SCALE	REVISION	SHEET
159	000.102.B07	1:40	@1 2 3 4 5	2 OF 8



DWG TITLE			
ASSEMBLY DRAWING B07			
HALL NO.	DWG NO.	SCALE	REVISION
159	000.102.B07	1:60	01 2 3 4 5
			SHEET
			3 OF 8

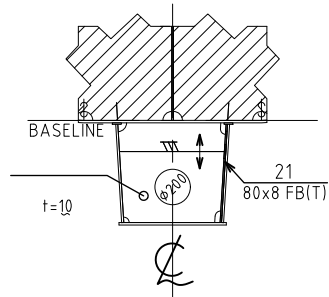
FRAME 28

(AFT-VIEW)



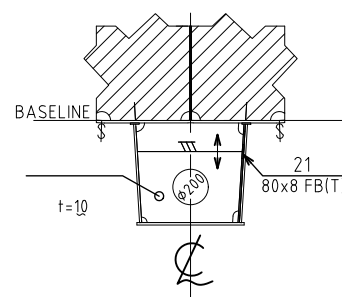
FRAME 29

(AFT-VIEW)



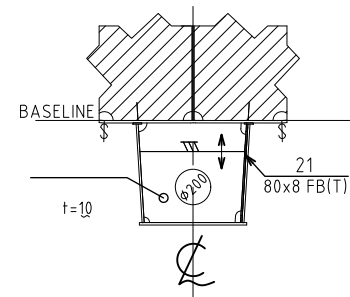
FRAME 30

(AFT-VIEW)



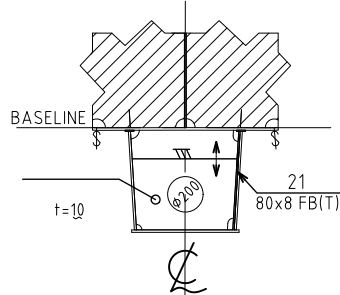
FRAME 31

(AFT-VIEW)



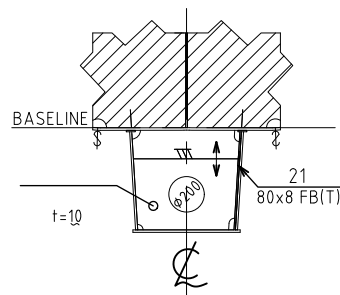
FRAME 32

(AFT-VIEW)



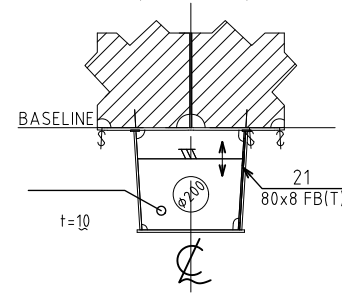
FRAME 33

(AFT-VIEW)



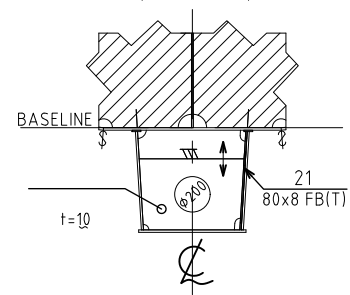
FRAME 34

(AFT-VIEW)



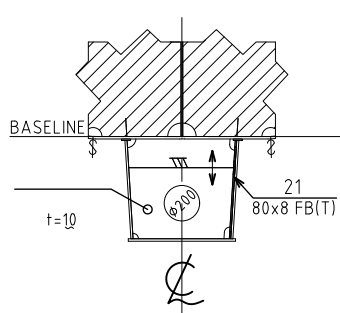
FRAME 35

(AFT-VIEW)



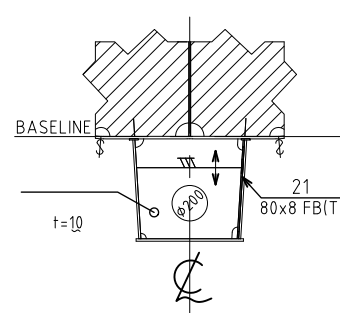
FRAME 36

(AFT-VIEW)



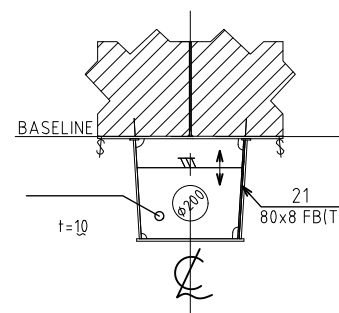
FRAME 37

(AFT-VIEW)



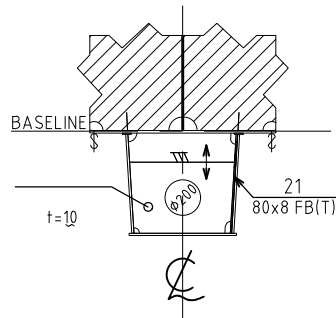
FRAME 38

(AFT-VIEW)

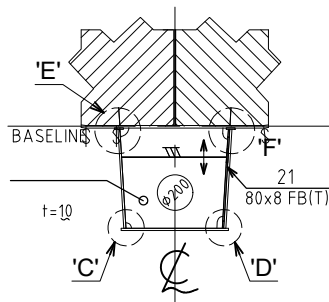


DWG. TITLE				
ASSEMBLY DRAWING B07				
HALL NO.	DWG. NO.	SCALE	REVISION	SHEET
159	000.102.B07	1:25	01 2 3 4 5	6 OF 8

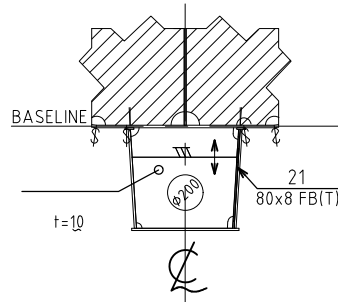
FRAME 39
(AFT-VIEW)



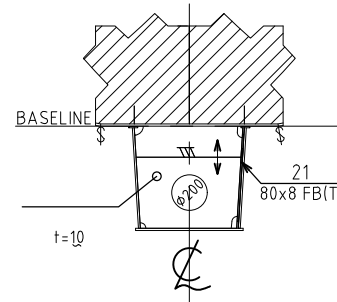
FRAME 40
(AFT-VIEW)



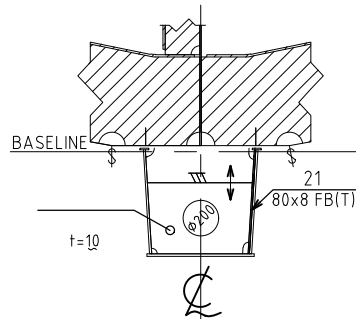
FRAME 41
(AFT-VIEW)



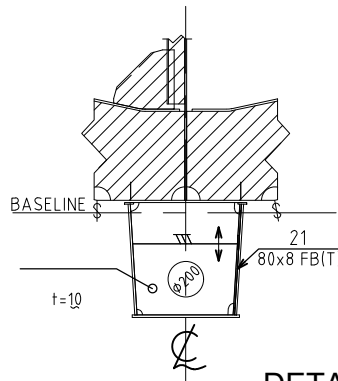
FRAME 42
(AFT-VIEW)



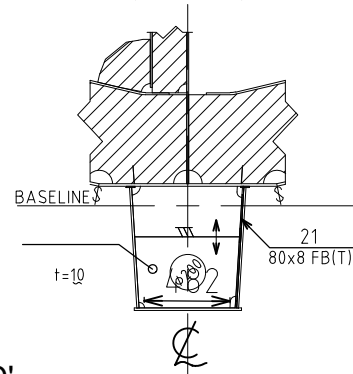
FRAME 43
(AFT-VIEW)



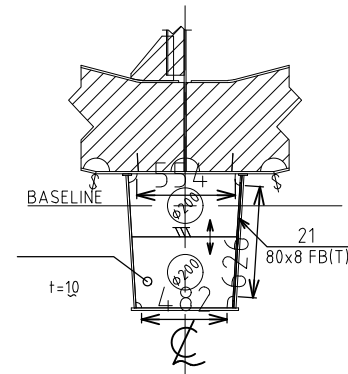
FRAME 44
(AFT-VIEW)



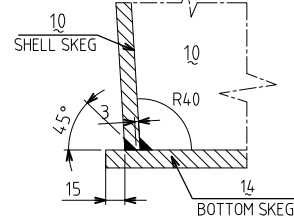
FRAME 45
(AFT-VIEW)



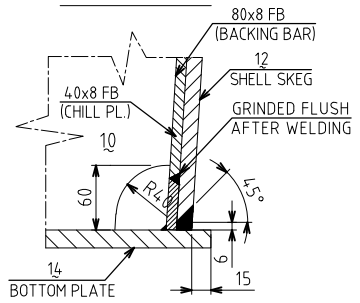
FRAME 46
(AFT-VIEW)



DETAIL 'C'

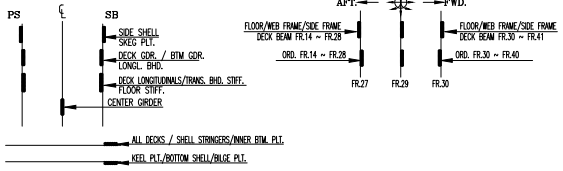


DETAIL 'D'



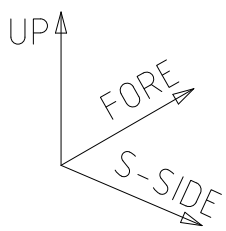
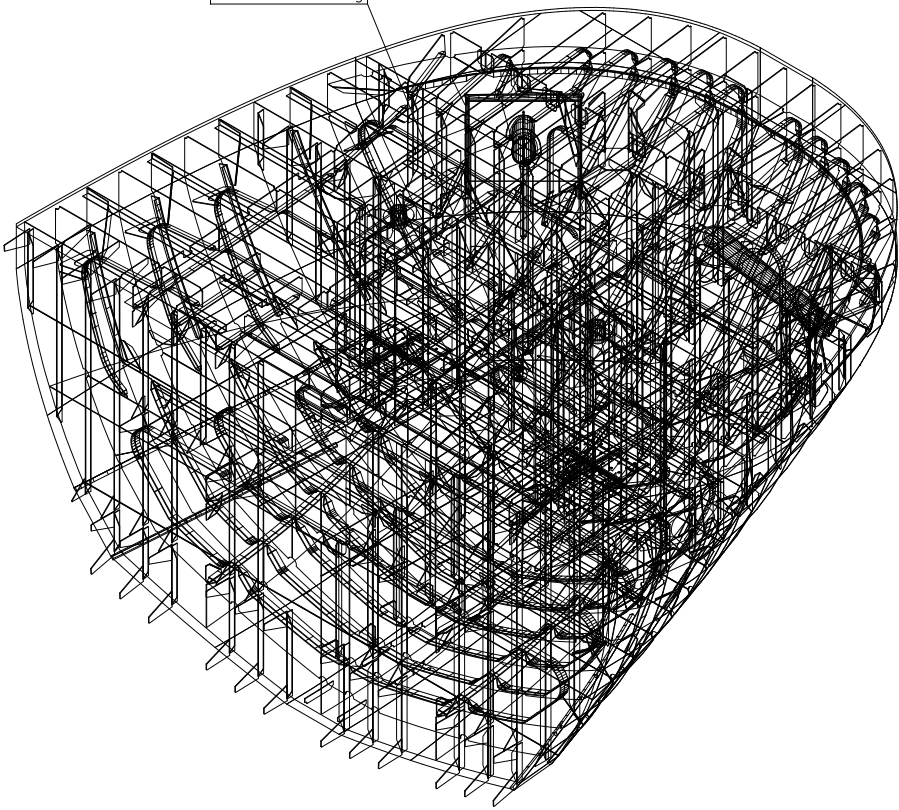
DWG TITLE				
ASSEMBLY DRAWING B07				
HALL NO.	DWG NO.	SCALE	REVISION	SHEET
159	000.102.B07	1:25	1 2 3 4 5	7 OF 8

THICKNESS DISPOSITION



LIFTING INFORMATION

X=FR49-50
 Y=4
 Z=3745
 Wt=61213.2 kg

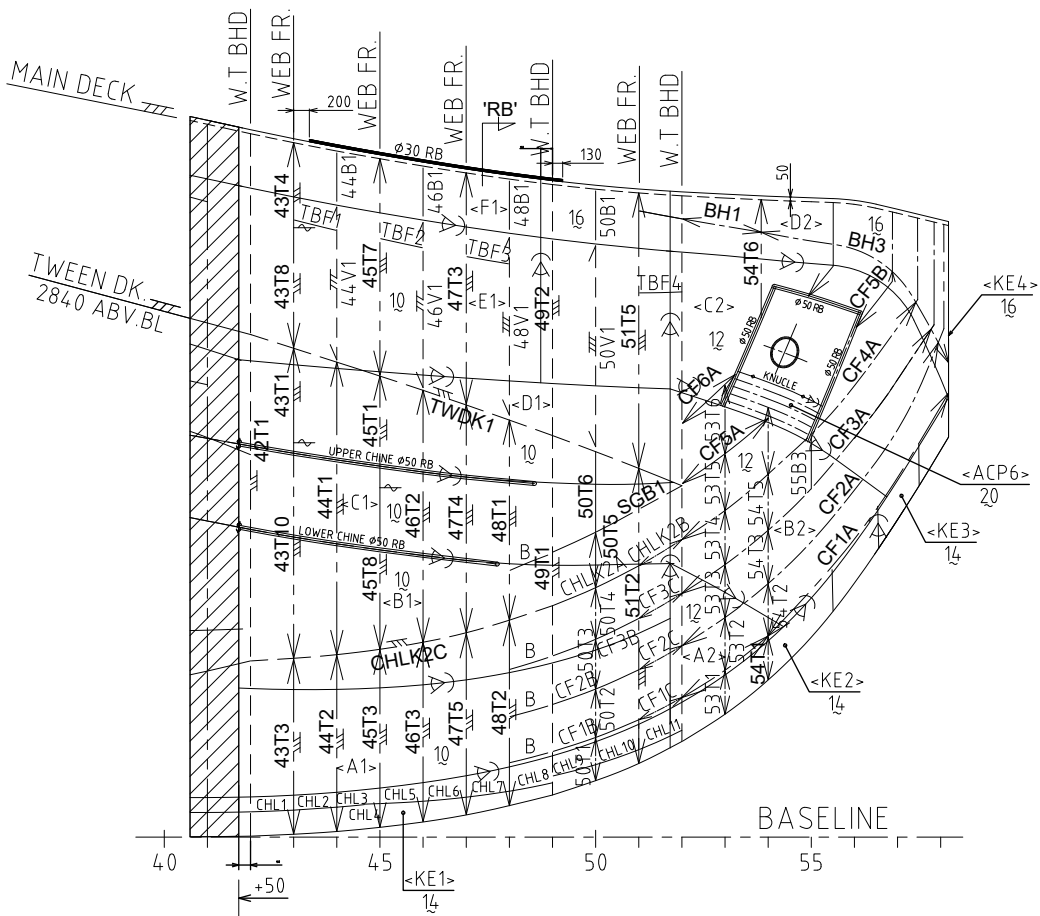


DWO. TITLE				
ASSEMBLY DRAWING B03				
HULL NO.	DWO NO.	SCALE	REVISION	SHEET
159	000.102.B03	1:80	112345	2 OF 23

SHELL EXPANSION (S.SIDE)

(P.SIDE SIMI TO S.SIDE) (S-VIEW)

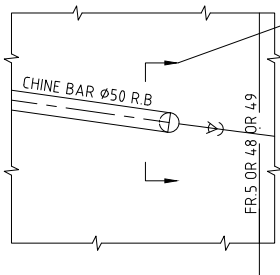
UP FORE



FRAME SPACE	550
ORDINARY FRAME	150x90x10 IA
WEB FRAME	500x100/100x12 FB(T),
BOTTOM FRAME	500x100/150x12 FB(T)
BOTTOM GIRDER	400x100/150x12 FB(T),

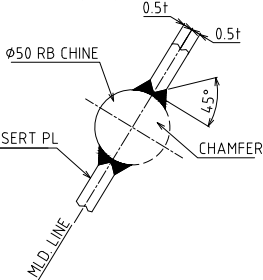
CHINE END DET.

NOT TO SCALE (TYP)

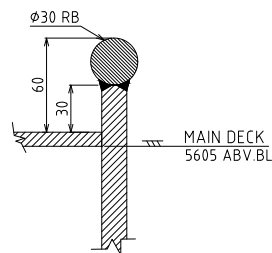


SECTION

NOT TO SCALE (TYP)



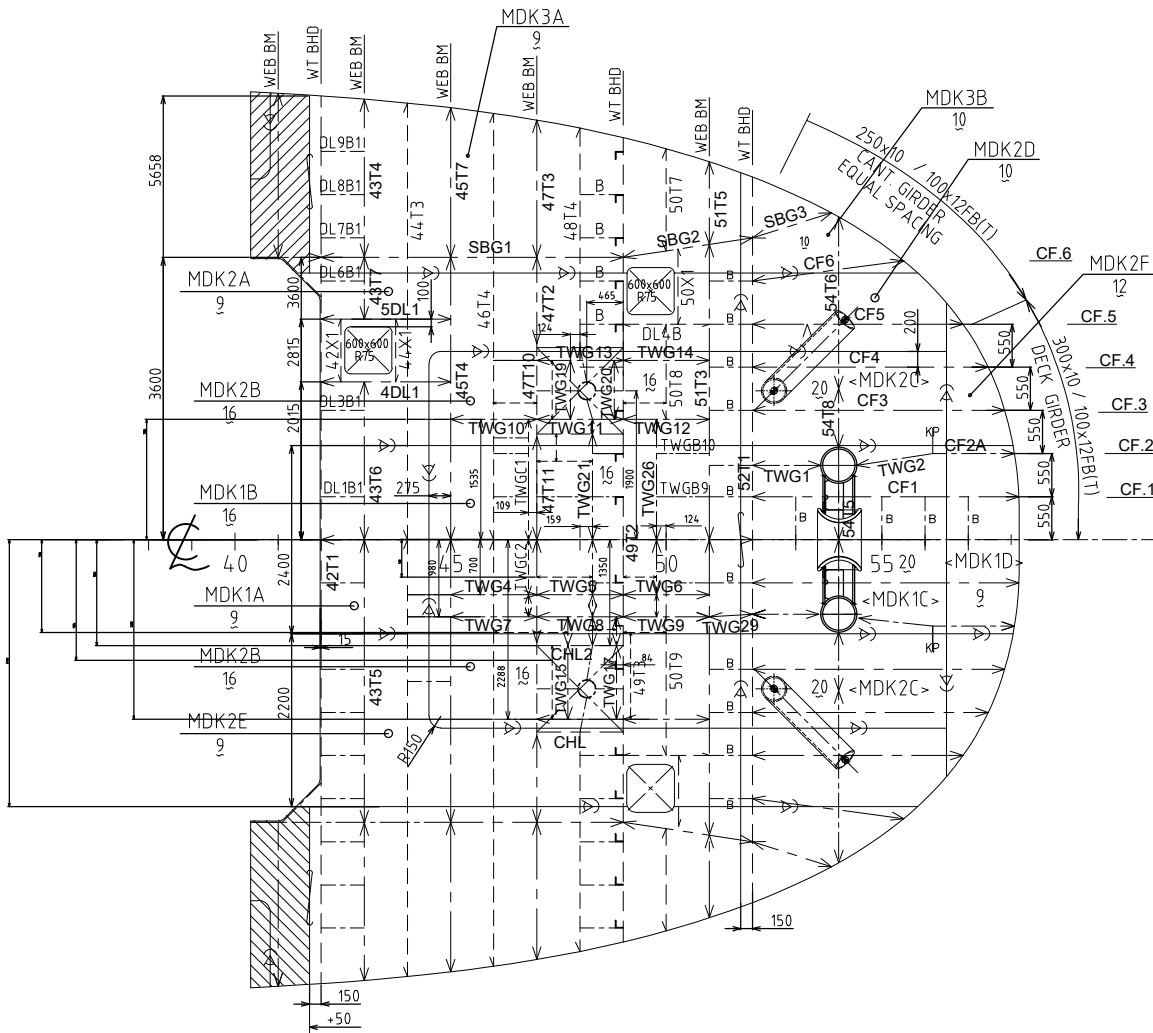
DET: "RB"



DWG. TITLE	ASSEMBLY DRAWING B03
DWG. NO.	000.02803
SCALE	1:80
REVISION	1 2 3 4 5
SHEET	3 OF 23

MAIN DECK (UP-VIEW)

P-SIDE
FORE



FRAME SPACE	550
DECK PLATE	9 EXCEPT AS SHOWN
DECK BEAM	100 x 100 x 8 A
CENTER & SIDE GIRDER	400x10/100x12 FB(T)
WEB FRAME	300x9/75x10 FB(T)

DWG. TITLE	
ASSEMBLY DRAWING B03	
HULL NO.	199
DWG. NO.	000102803
SCALE	1:80
REVISION	01 2 3 4 5
SHEET	4 OF 23