01 REFERENCE DOCUMENTS
DOCUMENTOS DE REFERÊNCIA

02 GENERAL ARRANGEMENT – PROFILE (SB) AND MAIN DECK
ARRANJO GERAL – PERFIL (BE) E CONVÉS PRINCIPAL

KIT SALVAGE

GROUP A MAIN DECK (FR. AFT TO 61)
GRUPO A CONVÉS PRINCIPAL (CAV. RÉ A 61)

SHEET FOLHA	TITLE *TÍTULO*	REFERENCE DOCUMENTS *DOCUMENTOS DE REFERÊNCIA*
03	VENTILATION ARRANGEMENT *ARRANJO DE VENTILAÇÃO*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-421 FORWARD EMERGENCY TOWING & AFT HOOK-UP ARRANGEMENT
04	WATERTIGHT AND WEATHERTIGHT DOORS ARRANGEMENT *ARRANJO DE PORTAS ESTANQUE*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-190-NSL-011 GENERAL ARRANGEMENT OF DOORS DECKS Nº1 & Nº2 × DE-3010.56-1200-140-AES-146 HATCHES COAMING AND DOORS IN UPPER DECK (FORWARD & AFT)
05	HATCHES ARRANGEMENT AND CONSTRUCTIVE STANDARD *ARRANJO DE ESCOTILHÕES E PADRÃO CONSTRUTIVO*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-145 HATCHES FOR ACCESS HYDRAULYC OFFLOADING AND CO2 LOCAL × DE-3010.56-1200-140-AES-146 HATCHES COAMING AND DOORS IN UPPER DECK (FORWARD & AFT)
06	AIR PIPES ARRANGEMENT (STARBOARD) *ARRANJO DE SUSPIROS (BORESTE)*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-6360-944-AES-001 PIPING & INSTRUMENT DIAGRAM AIR VENT & SOUNDING – DIESEL OIL TANKS × DE-3010.56-6360-944-AES-002 PIPING & INSTRUMENT DIAGRAM AIR VENT & SOUNDING OF TANKS/VOID SPACES
07	AIR PIPES ARRANGEMENT (PORTSIDE) *ARRANJO DE SUSPIROS (BOMBORDO)*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-6360-944-AES-001 PIPING & INSTRUMENT DIAGRAM AIR VENT & SOUNDING – DIESEL OIL TANKS × DE-3010.56-6360-944-AES-002 PIPING & INSTRUMENT DIAGRAM AIR VENT & SOUNDING OF TANKS/VOID SPACES
08	AFT HOOK-UP ARRANGEMENT *ARRANJO DE GUINCHO À RÉ*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-421 FORWARD EMERGENCY TOWING & AFT HOOK-UP ARRANGEMENT

GROUP B MAIN DECK (FR. 61 TO 85)
GRUPO B CONVÉS PRINCIPAL (CAV. 61 A 85)

SHEET FOLHA	TITLE *TÍTULO*	REFERENCE DOCUMENTS *DOCUMENTOS DE REFERÊNCIA*
09	VENTILATION ARRANGEMENT *ARRANJO DE VENTILAÇÃO*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × I-DE-3010.56-5250-942-X.JM-002 VAC LAYOUT – PROCESS PLANT SPACE
10	WATERTIGHT AND WEATHERTIGHT DOORS ARRANGEMENT *ARRANJO DE PORTAS ESTANQUE*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-146 HATCHES COAMING AND DOORS IN UPPER DECK (FORWARD & AFT) × I-DE-3010.56-9310-942-X.JM-025 POWER GENERATION MODULE AND CO2 ROOM – STEEL DOOR ARRANGEMENT
11	HATCHES ARRANGEMENT *ARRANJO DE ESCOTILHÕES*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-190 STRUCTURAL INSPECTION TANKS GENERAL ARRANGEMENT OF HATCHES MAIN DECK
12	MANHOLES ARRANGEMENT *ARRANJO DE PORTAS DE VISITA*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-140 MANHOLES ARRANGEMENT × DE-3010.56-1200-140-AES-142 MANHOLE COVER INSPECTION TANK & VENT SYSTEM
13	MANHOLES ARRANGEMENT – ITEMS AND CONSTRUCTIVE STANDARD *ARRANJO DE PORTAS DE VISITA – ITENS E PADRÃO CONSTRUTIVO*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-140 MANHOLES ARRANGEMENT × DE-3010.56-1200-140-AES-142 MANHOLE COVER INSPECTION TANK & VENT SYSTEM
14	AIR PIPES ARRANGEMENT *ARRANJO DE SUSPIROS*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-6360-944-AES-002 PIPING & INSTRUMENT DIAGRAM AIR VENT & SOUNDING OF TANKS/VOID SPACES
15	FENDERS ARANGEMENT *ARRANJO DAS DEFENSAS*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT

GROUP C MAIN DECK (FR. 85 TO 109)
GRUPO C CONVÉS PRINCIPAL (CAV. 85 A 109)

SHEET FOLHA	TITLE *TÍTULO*	REFERENCE DOCUMENTS *DOCUMENTOS DE REFERÊNCIA*
16	HATCHES ARRANGEMENT *ARRANJO DE ESCOTILHÕES*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-190 STRUCTURAL INSPECTION TANKS GENERAL ARRANGEMENT OF HATCHES MAIN DECK
17	MANHOLES ARRANGEMENT *ARRANJO DE PORTAS DE VISITA*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-140 MANHOLES ARRANGEMENT × DE-3010.56-1200-140-AES-142 MANHOLE COVER INSPECTION TANK & VENT SYSTEM
18	MANHOLES ARRANGEMENT – ITEMS AND CONSTRUCTIVE STANDARD *ARRANJO DE PORTAS DE VISITA – ITENS E PADRÃO CONSTRUTIVO*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-140 MANHOLES ARRANGEMENT × DE-3010.56-1200-140-AES-142 MANHOLE COVER INSPECTION TANK & VENT SYSTEM
19	AIR PIPES ARRANGEMENT *ARRANJO DE SUSPIROS*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-6360-944-AES-002 PIPING & INSTRUMENT DIAGRAM AIR VENT & SOUNDING OF TANKS/VOID SPACES

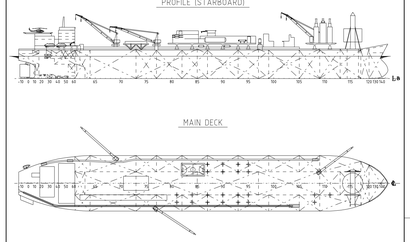
GROUP D MAIN DECK (FR. 109 TO FORWARD)
GRUPO D CONVÉS PRINCIPAL (CAV. 109 A VANTE)

SHEET FOLHA	TITLE *TÍTULO*	REFERENCE DOCUMENTS *DOCUMENTOS DE REFERÊNCIA*
20	HATCHES ARRANGEMENT *ARRANJO DE ESCOTILHÕES*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-190 STRUCTURAL INSPECTION TANKS GENERAL ARRANGEMENT OF HATCHES MAIN DECK × DE-3010.56-1200-140-AES-146 HATCHES COAMING AND DOORS IN UPPER DECK (FORWARD & AFT)
21	MANHOLES ARRANGEMENT AND CONSTRUCTIVE STANDARD *ARRANJO DE PORTAS DE VISITA E PADRÃO CONSTRUTIVO*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-140 MANHOLES ARRANGEMENT × DE-3010.56-1200-140-AES-142 MANHOLE COVER INSPECTION TANK & VENT SYSTEM
22	AIR PIPES ARRANGEMENT *ARRANJO DE SUSPIROS*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-6360-944-AES-002 PIPING & INSTRUMENT DIAGRAM AIR VENT & SOUNDING OF TANKS/VOID SPACES
23	TOWING ARRANGEMENT AND RETRIVEL SYSTEM *ARRANJO DE REBOQUE E SISTEMA DE AMARRAÇÃO*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-420 FORWARD TOWING & HOOK UP ARRANGEMENT
24	TOWING ARRANGEMENT AND RETRIVEL SYSTEM – DETAILS *ARRANJO DE REBOQUE E SISTEMA DE AMARRAÇÃO – DETALHES*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-420 FORWARD TOWING & HOOK UP ARRANGEMENT
25	EMERGENCY ANCHOR ARRANGEMENT *ARRANJO DE ANCORAGEM DE EMERGÊNCIA*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-424 EMERGENCY ANCHOR ARRANGEMENT
26	FORWARD EMERGENCY TOWING ARRANGEMENT *ARRANJO DE REBOQUE DE EMERGÊNCIA A VANTE*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-421 FORWARD EMERGENCY TOWING & AFT HOOK-UP ARRANGEMENT

GROUP E PLATFORM AND BOTTOM PLAN (ENGINE ROOM AND PUMP ROOM)
GRUPO E PLATAFORMA E PLANO DE FUNDO (SALA DE MÁQUINAS E SALA DE BOMBAS)

SHEET FOLHA	TITLE *TÍTULO*	REFERENCE DOCUMENTS *DOCUMENTOS DE REFERÊNCIA*
27	SEA CHEST – PLAN AND SECTIONS A, B, C AND D *CAIXA DE MAR – PLANTA E SEÇÕES A, B, C E D*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-040 SEA CHESTS (FR.45 – FR.56) × DE-3010.56-1200-140-AES-041 SEA CHESTS (FR.20 – FR.40) × DE-3010.56-1200-140-AES-042 ALUMINIUM COVERS DESMOUNTING FOR SEA CHESTS
28	SEA CHEST – PROFILE (SB) AND (PS) *CAIXA DE MAR – VISTA PERFIL (BE) E (BB)*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-040 SEA CHESTS (FR.45 – FR.56) × DE-3010.56-1200-140-AES-041 SEA CHESTS (FR.20 – FR.40) × DE-3010.56-1200-140-AES-042 ALUMINIUM COVERS DESMOUNTING FOR SEA CHESTS
29	SEA CHEST – CONTRUCTIVE STANDARD *CAIXA DE MAR – PADRÃO CONSTRUTIVO*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × DE-3010.56-1200-140-AES-040 SEA CHESTS (FR.45 – FR.56) × DE-3010.56-1200-140-AES-041 SEA CHESTS (FR.20 – FR.40) × DE-3010.56-1200-140-AES-042 ALUMINIUM COVERS DESMOUNTING FOR SEA CHESTS
30	BOTTOM PLUGS ARRANGEMENT *ARRANJO DE BUJÕES NO FUNDO*	× I-DE-3010.56-9310-942-X.JM-301 GENERAL ARRANGEMENT × I-DE-3010.56-9310-942-X.JM-200 DOCKING PLAN

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

× I-DE-3010.56-9310-942-X.JM-301
GENERAL ARRANGEMENT

NOTAS GERAIS

LEGENDA

N DAMPERS
N DOORS
N HATCHES
N MANHOLES
N AIR PIPES (VENTS)
N SEA CHEST
N SIDE DISCHARGE

REV.	DESCRIÇÃO	DATA	EXEC.	VERIF.	APROV.
0	EMISSÃO INICIAL	12/09/08	TECNITAS	ROBERTO	M.RAMOS

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.
Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS
E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE
REFERENCE DOCUMENTS
DOCUMENTOS DE REFERÊNCIA

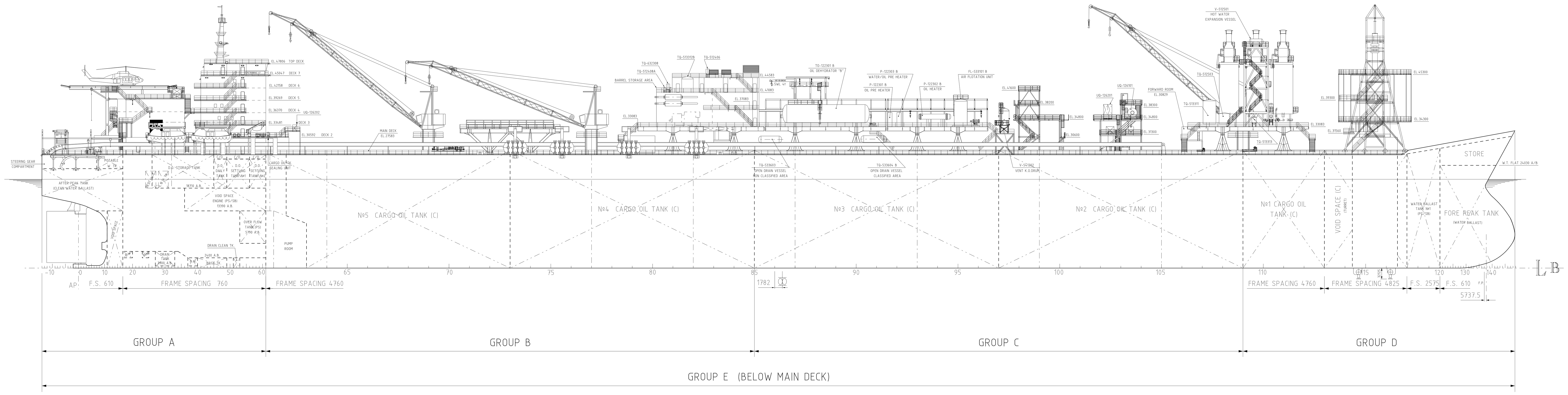
PROJ.	EXEC.	VERIF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS

ESCALA	AS.	SEP.	FOLHA
–	–	–	01 de 30

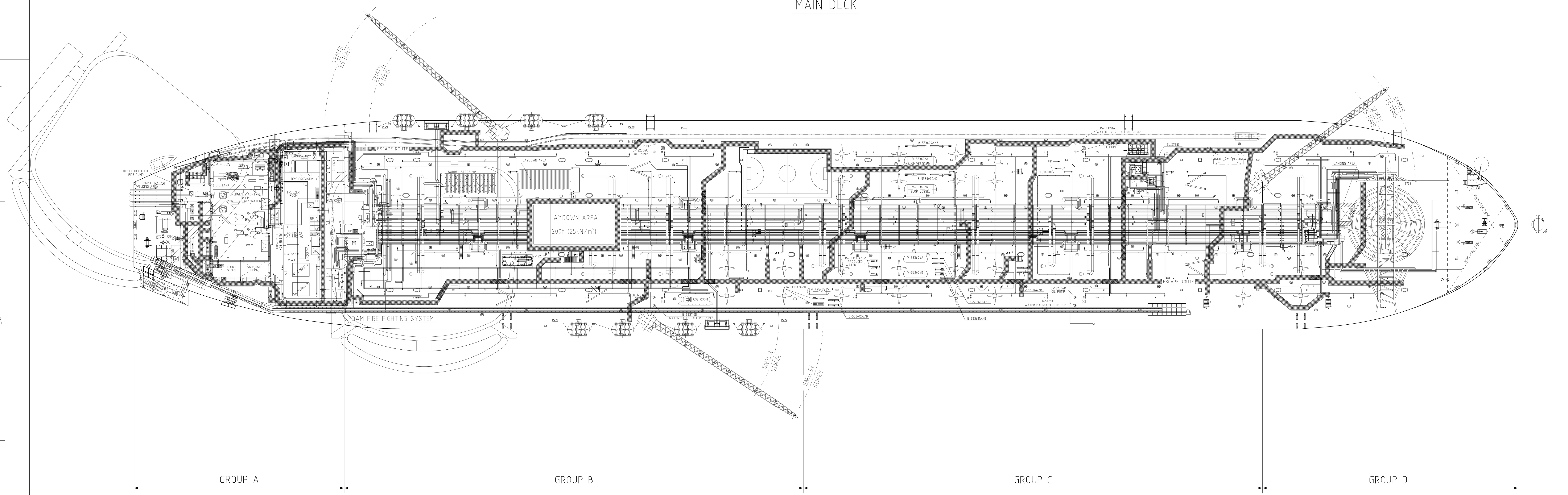
DATA: 12/09/08
Nº: DE-3010.56-5430-980-TNA-001

A1 = 594x841
COPIA NAO CONTROLADA

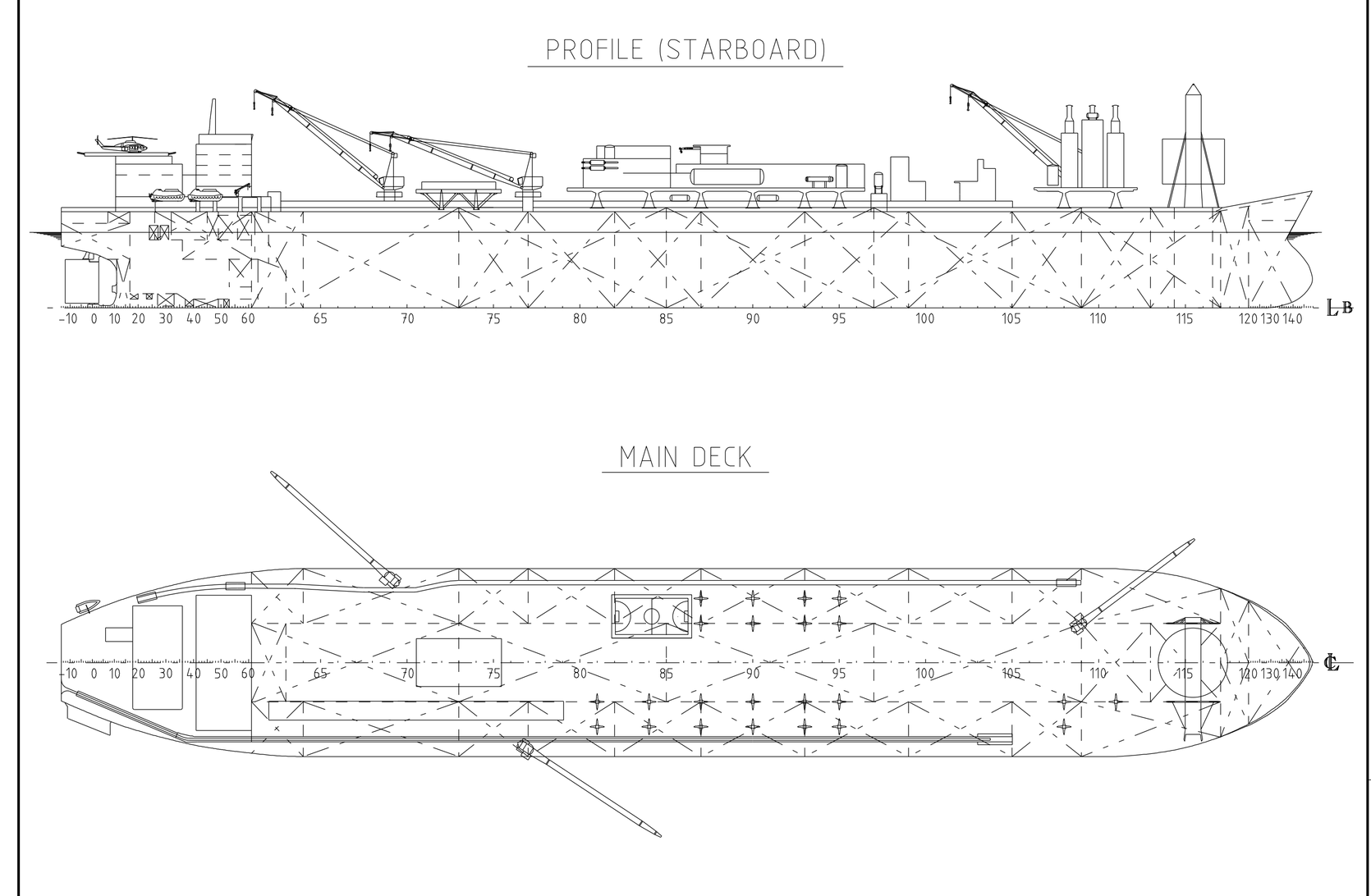
PROFILE (STARBOARD)



MAIN DECK



PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

* I – DE-3010.56-9310-942-XJM-301
GENERAL ARRANGEMENT

NOTAS GERAIS

MAIN CHARACTERISTICS

LENGTH OVERALL	346.237 m
LENGTH BETWEEN PERPENDICULARS	333.883 m
BREADTH MOULDED	57.302 m
DEPTH MOULDED	28.500 m
MINIMUM DRAUGHT	14.070 m
DRAUGHT DESIGN	16.000 m
MAXIMUM DRAUGHT	22.230 m

LEGENDA

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A – FOLHA 08/08.

TECNITAS DO BRASIL LTDA.

Nº DO CONTRATO:	101.2.013.02-2
RESPONSÁVEL TÉCNICO:	CESAR A. BRACET
Nº DO CREA:	83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS — E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

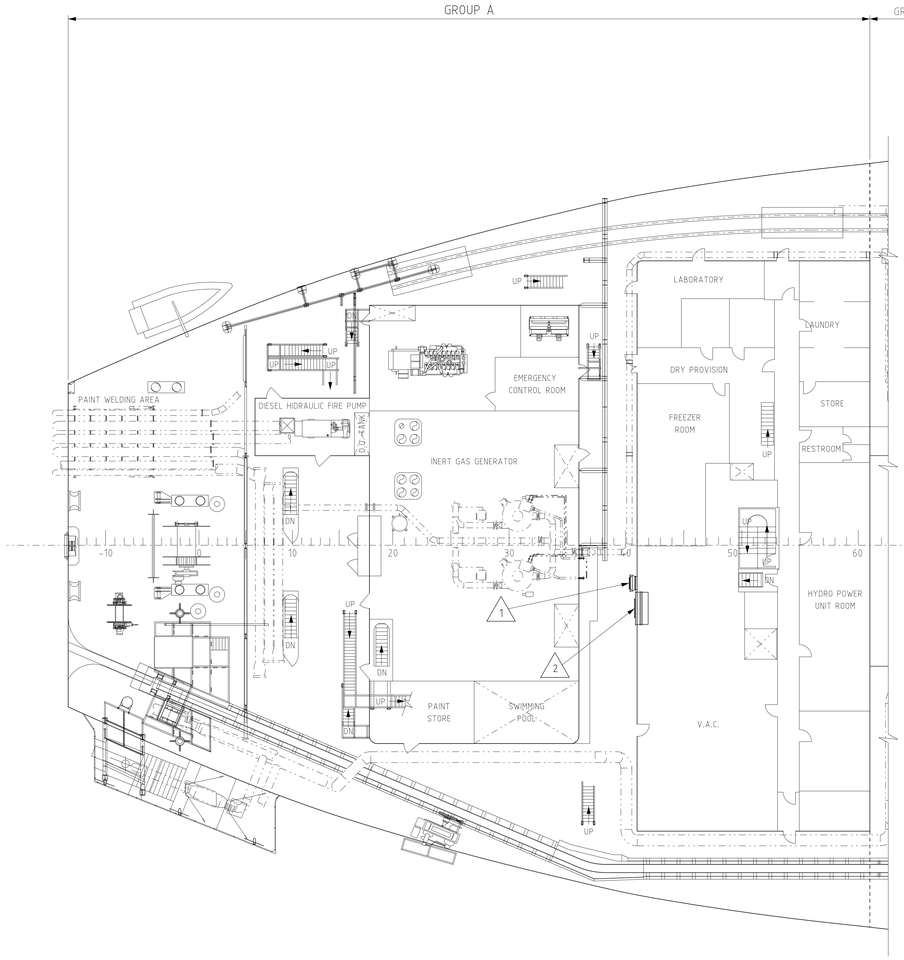
ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE
GENERAL ARRANGEMENT – PROFILE (SB) AND MAIN DECK
ARRANJO GERAL – PERFIL (BE) E CV. PRINCIPAL

PROJ. TECNITAS	EXEC. JOÁS MARTINS	VERIF. ROBERTO MARTINS	APROV. M. RAMOS
ESCALA 1:600	AS. –	SEP. –	FOLHA 02 de 30
DATA 12/09/08	Nº DE-3010.56-5430-980-TNA-001		

COPIA NAO CONTROLADA

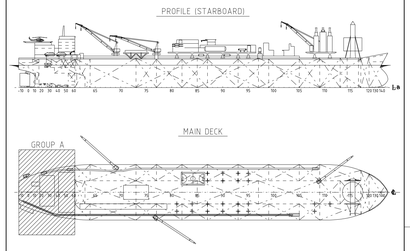
MAIN DECK
SCALE: 1:200



DAMPERS

ITEM	COAMING		TYPE	DECK	COMPARTMENT ACCESS	CONSTRUCTIVE STANDARD (TYPE)
	DIMENSION (A x B) mm	HEIGHT ABOVE DECK (H) mm				
1	700 x 500	–	DAMPER DE-525111	MAIN DECK (SB)	VAC ROOM	–
2	1200 x 900	–	FILTER BOX FT-525101	MAIN DECK (SB)	VAC ROOM	–

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- I-DE-3010.56-5250-942-XJM-001
  VAC LAYOUT - ACCOMMODATION SPACE

NOTAS GERAIS

LEGENDA

N DAMPERS

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.

Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS

E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP A
VENTILATION ARRANGEMENT
ARRANJO DE VENTILAÇÃO

PROJ.	EXEC.	VERIF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS

ESCALA	AS.	SEP.	FOLHA
INDICADA	–	–	03 de 30

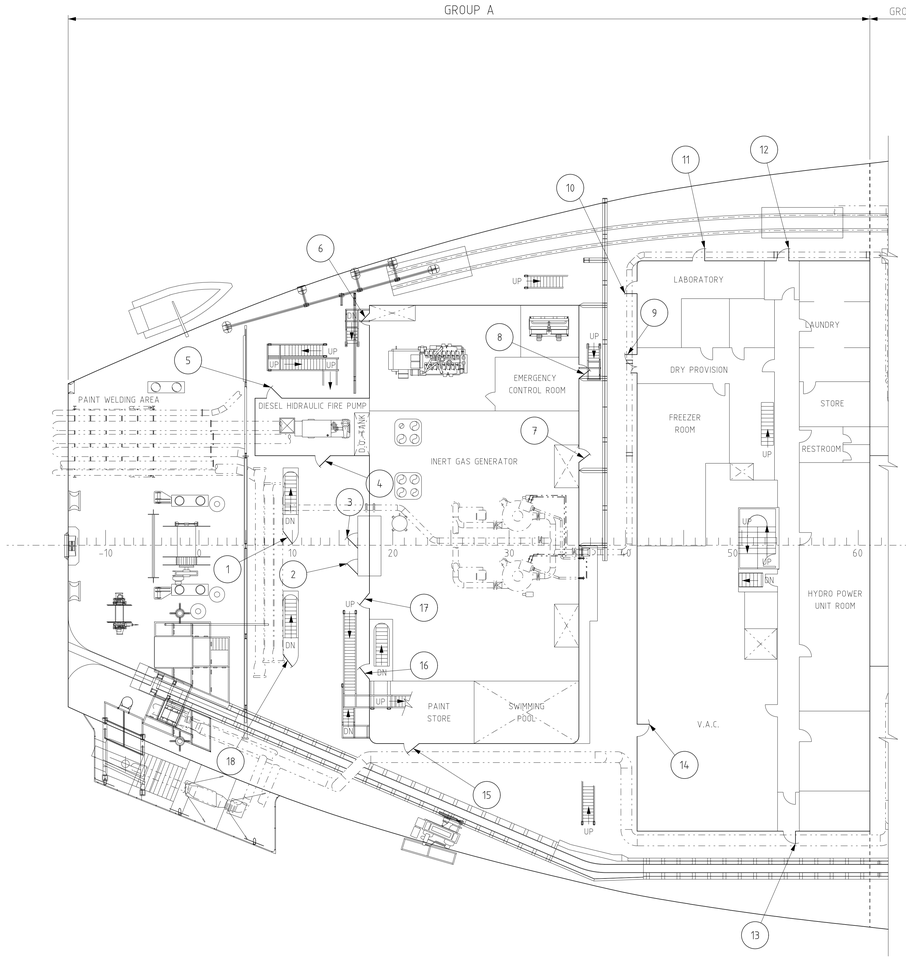
DATA: 12/09/08

Nº DE-3010.56-5430-980-TNA-001

COPIA NAO CONTROLADA

A1 = 594x841

MAIN DECK
SCALE: 1:200

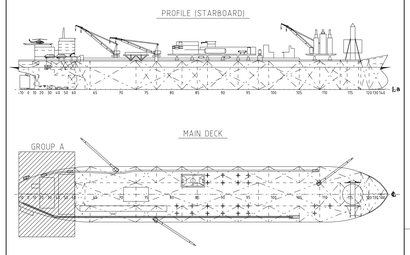


DOORS

ITEM	TYPE OF DOOR	SIZE OF OPENING		SILL HEIGHT (H) mm	INSIDE	INSIDE	Nº OF CLIPS	DECK	COMPARTMENT ACCESS	CONSTRUCTIVE STANDARD (TYPE)
		BREADTH (A)	HEIGHT (B)		▽	▽				
1	WE	–	–	–	●		–	MAIN DECK (PS)	–	–
2	WE	–	–	–		●	–	MAIN DECK (SB)	–	–
3	WE	–	–	–		●	–	MAIN DECK (PS)	–	–
4	WE	–	–	–		●	–	MAIN DECK (PS)	DIESEL HIDRAULIC FIRE PUMP	–
5	WE	–	–	–	●		–	MAIN DECK (PS)	DIESEL HIDRAULIC FIRE PUMP	–
6	WE	–	–	–	●		–	MAIN DECK (PS)	–	–
7	WE	–	–	–	●		–	MAIN DECK (PS)	INERT GAS GENERATOR	–
8	WE	–	–	–	●		–	MAIN DECK (PS)	EMERGENCY CONTROL ROOM	–
9	WE	1200	1900	100	●	●	–	MAIN DECK (PS)	DRY PROVISION	–
10	WE	800	1900	100		●	–	MAIN DECK (PS)	LABORATORY	–
11	WE	800	1900	100	●		–	MAIN DECK (PS)	LABORATORY	–
12	WE	800	1900	600	●		–	MAIN DECK (PS)	CORRIDOR	–
13	WE	800	1900	600		●	–	MAIN DECK (SB)	CORRIDOR	–
14	WE	800	1900	100		●	–	MAIN DECK (SB)	V.A.C.	–
15	WE	–	–	–		●	–	MAIN DECK (SB)	PAINT STORE	–
16	WE	–	–	–		●	–	MAIN DECK (SB)	–	–
17	WE	–	–	–	●		–	MAIN DECK (SB)	INERT GAS GENERATOR	–
18	WE	–	–	–	●		–	MAIN DECK (SB)	–	–

WE - WEATHERTIGHT

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-190-NSL-011
  GENERAL ARRANGEMENT OF DOORS DECKS Nº1 & Nº2
- DE-3010.56-1200-140-AES-146
  HATCHES COAMING AND DOORS IN UPPER DECK (FORWARD & AFT)

NOTAS GERAIS

LEGENDA

(N) DOORS

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.
Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS
E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

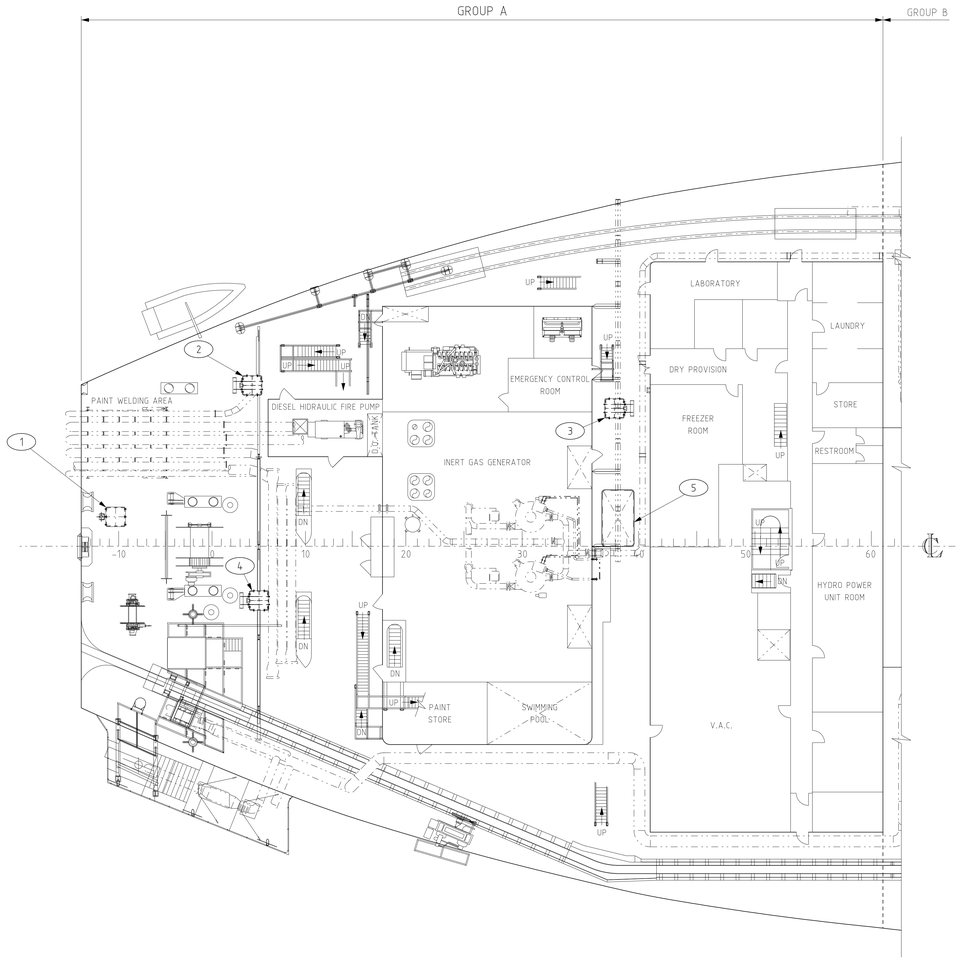
TÍTULO: KIT SALVAGE GROUP A
WATERTIGHT AND WEATHERTIGHT DOORS ARRANGEMENT
ARRANJO DE PORTAS ESTANQUE

PROJ.	TECNITAS	EXEC.	MAGNO CASTRO	VERIF.	ROBERTO MARTINS	APROV.	M. RAMOS
ESCALA	INDICADA	AS.	–	SEP.	–	FOLHA	04 de 30
DATA	12/09/08	Nº	DE-3010.56-5430-980-TNA-001				

COPIA NAO CONTROLADA

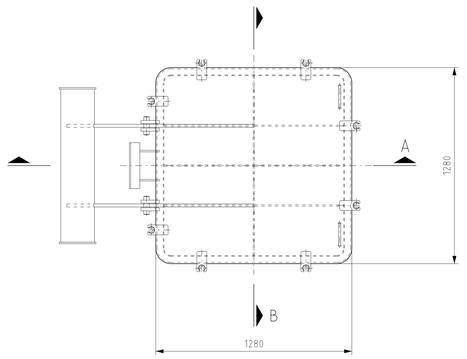
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MAIN DECK
SCALE: 1:200

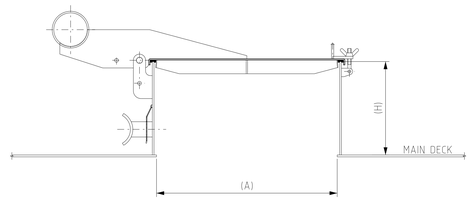


CONSTRUCTIVE STANDARD

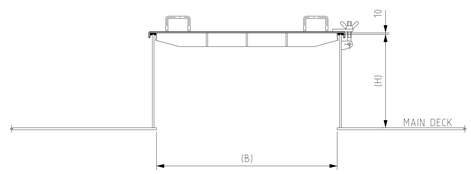
TYPE 1
SCALE: 1:20



SECTION A
SCALE: 1:20



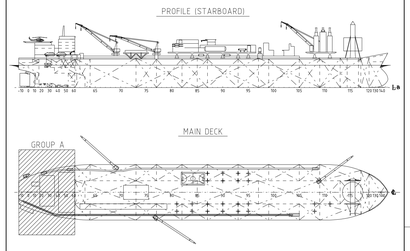
SECTION B
SCALE: 1:20



HATCHES

ITEM	COAMING		CLOSING APPLIANCES		DECK	COMPARTMENT ACCESS	CONSTRUCTIVE STANDARD (TYPE)
	DIMENSION (A x B) mm	HEIGHT ABOVE DECK (H) mm	GASKET	SECURING DEVICE			
1	-	610	-	-	MAIN DECK (PS)	STEERING GEAR COMPARTMENT	-
2	1180 x 1180	610	-	-	MAIN DECK (PS)	STEERING GEAR COMPARTMENT	TYPE 1
3	1180 x 1180	610	-	-	MAIN DECK (PS)	-	TYPE 1
4	1180 x 1180	610	-	-	MAIN DECK (SB)	STEERING GEAR COMPARTMENT	TYPE 1
5	-	610	-	-	MAIN DECK (PS)	ENGINE ROOM	-

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-145
  HATCHES FOR ACCESS HYDRAULYC OFFLOADING AND CO2 LOCAL
- DE-3010.56-1200-140-AES-146
  HATCHES COAMING AND DOORS IN UPPER DECK (FORWARD & AFT)

NOTAS GERAIS

LEGENDA

(N) HATCHES

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.

Nº DO CONTRATO:	101.2.013.02-2
RESPONSÁVEL TÉCNICO:	CESAR A. BRACET
Nº DO CREA:	83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS

E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

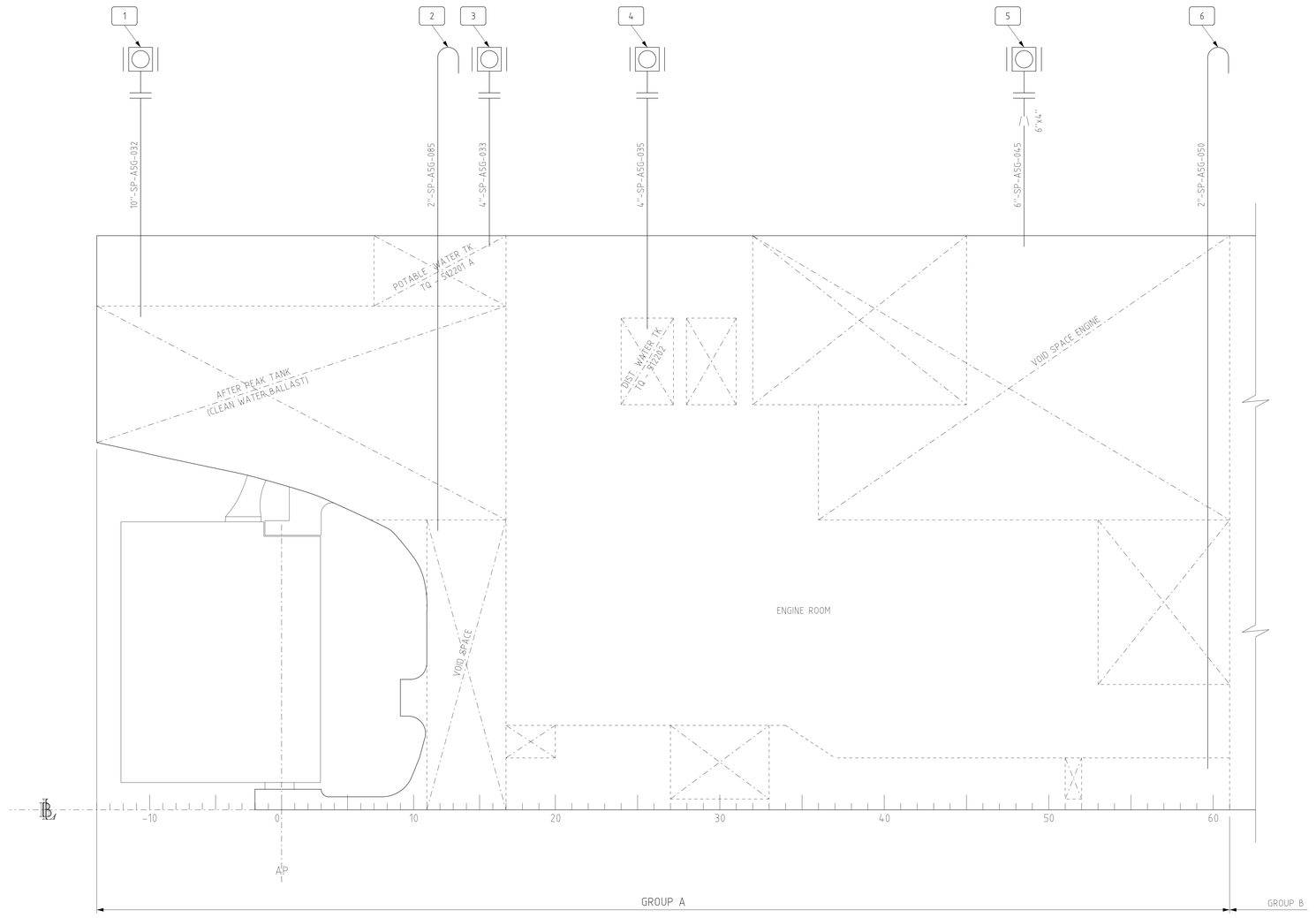
TÍTULO: KIT SALVAGE GROUP A
HATCHES ARRANGEMENT AND CONSTRUCTIVE STANDARD
ARRANJO DE ESCOTILHÕES E PADRÃO CONSTRUTIVO

PROJ. TECNITAS	EXEC. MAGNO CASTRO	VERIF. ROBERTO MARTINS	APROV. M. RAMOS	
ESCALA INDICADA	AS. -	SEP. -	FOLHA 05 de 30	
DATA 12/09/08	Nº DE-3010.56-5430-980-TNA-001			

A1 = 594x841
CÓPIA NÃO CONTROLADA

PROFILE (STARBOARD)

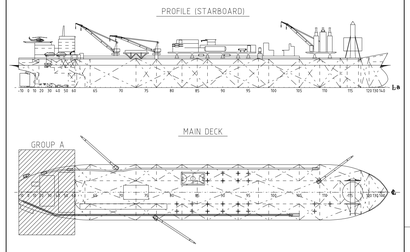
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AIR PIPES (VENTS)

ITEM	PIPE ABOVE DECK		DECK	TANKS	CONSTRUCTIVE STANDARD (TYPE)
	DIMENSION	HEIGHT ABOVE DECK (H) mm			
1	10"	700	MAIN DECK (SB)	AFTER PEAK TANK (BALLAST)	-
2	2"	700	MAIN DECK (SB)	VOID SPACE	-
3	4"	700	MAIN DECK (SB)	POTABLE WATER TANK (TQ-512201A)	-
4	4"	700	MAIN DECK (SB)	DESTILLED WATER TANK (512202)	-
5	6"	700	MAIN DECK (SB)	VOID SPACE	-
6	2"	700	MAIN DECK (SB)	VOID SPACE	-

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-6360-944-AES-002
  PIPING & INSTRUMENT DIAGRAM
  AIR VENT & SOUNDING OF TANKS/VOID SPACES

NOTAS GERAIS

LEGENDA

N — AIR PIPES (VENTS)

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.	Nº DO CONTRATO: 101.2.013.02-2
	RESPONSÁVEL TÉCNICO: CESAR A. BRACET
	Nº DO CREA: 83-1-02202-D
PETRÓLEO BRASILEIRO S.A. PETROBRAS	E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

AREA: PETROBRAS 47

TITULO: KIT SALVAGE GROUP A
AIR PIPES ARRANGEMENT (STARBOARD)
ARRANJO DE SUSPIROS (BORESTE)

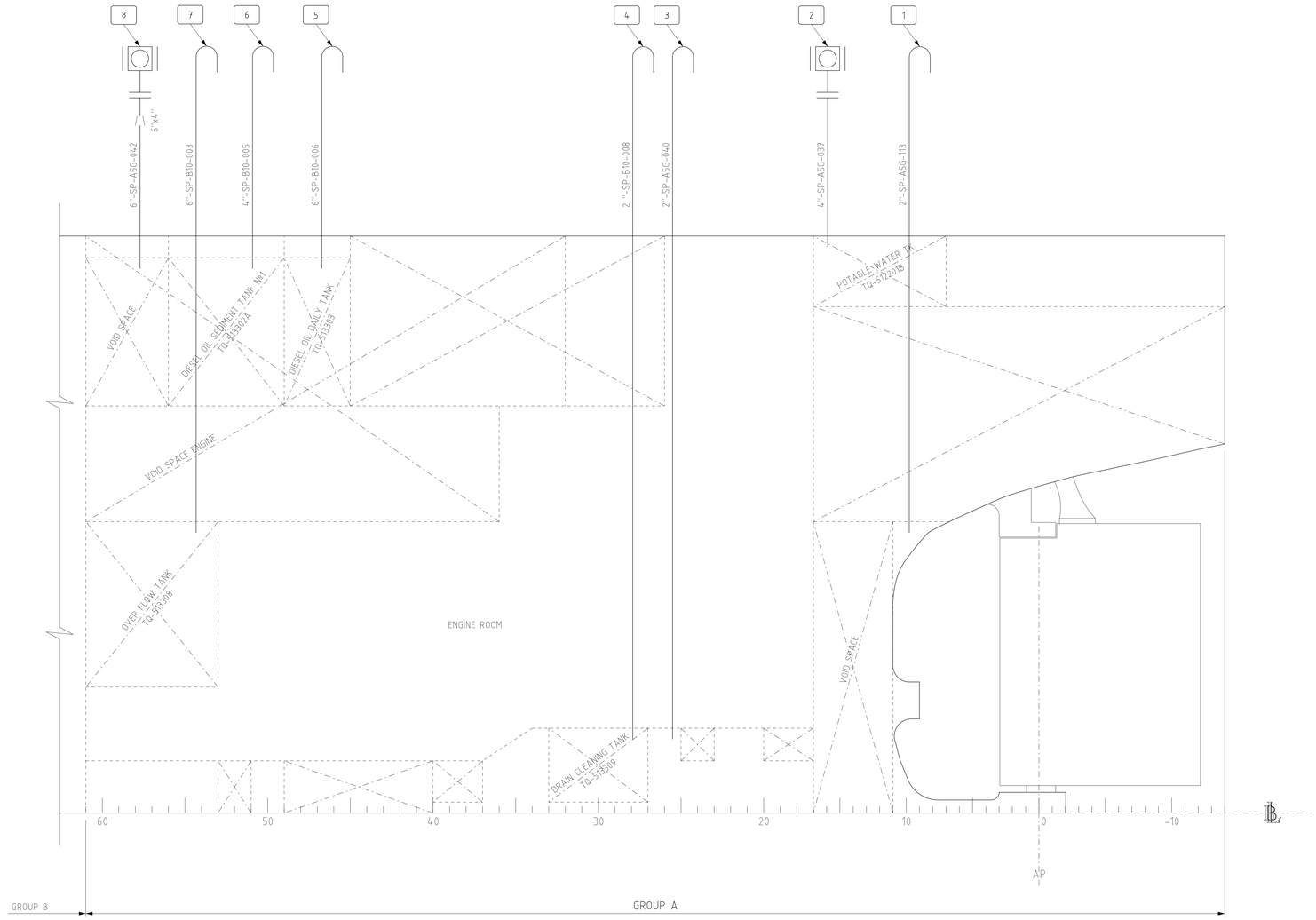
PROJ.	TECNITAS	EXEC.	MAGNO CASTRO	VERIF.	ROBERTO MARTINS
ESCALA	INDICADA	AS.	-	SEP.	-
DATA	12/09/08	Nº	DE-3010.56-5430-980-TNA-001	APROV.	M. RAMOS
				FOLHA	06 de 30

COPIA NAO CONTROLADA

A1 = 594x841

PROFILE (PORTSIDE)

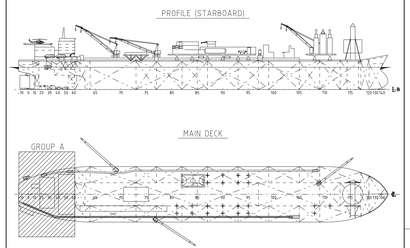
SCALE: 1:125



AIR PIPES (VENTS)

ITEM	PIPE ABOVE DECK		DECK	TANKS	CONSTRUCTIVE STANDARD (TYPE)
	DIMENSION	HEIGHT ABOVE DECK (H) mm			
1	2"	700	MAIN DECK (PS)	VOID SPACE (STEERING WHEEL)	-
2	4"	700	MAIN DECK (PS)	POTABLE WATER TANK (512201B)	-
3	2"	700	MAIN DECK (PS)	DOUBLE BOTTOM ENGINE (VOID SPACE)	-
4	2"	700	MAIN DECK (PS)	DRAIN CLEANING TANK (513309)	-
5	4"	700	MAIN DECK (PS)	DIESEL OIL DAILY TANK (513303)	-
6	4"	700	MAIN DECK (PS)	DIESEL OIL SEDIMENT TANK (513302A)	-
7	6"	700	MAIN DECK (PS)	OVERFLOW TANK (513308)	-
8	6"	700	MAIN DECK (PS)	VOID SPACE	-

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-6360-944-AES-001
  PIPING & INSTRUMENT DIAGRAM
  AIR VENT & SOUNDING - DIESEL OIL TANKS
- DE-3010.56-6360-944-AES-002
  PIPING & INSTRUMENT DIAGRAM
  AIR VENT & SOUNDING OF TANKS/VOID SPACES

NOTAS GERAIS

LEGENDA

N AIR PIPES (VENTS)

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.

Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS

E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

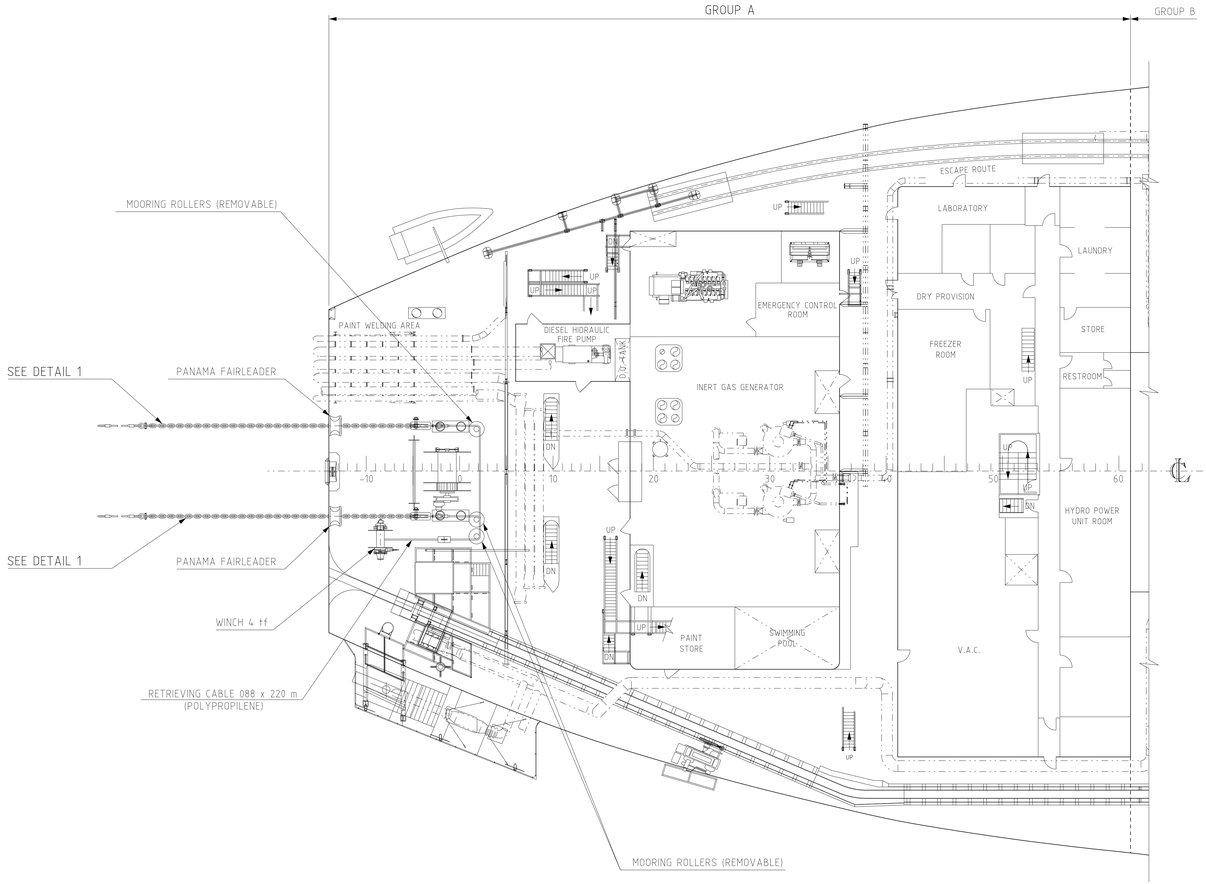
ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP A
AIR PIPES ARRANGEMENT (PORTSIDE)
ARRANJO DE SUSPIROS (BOMBORDO)

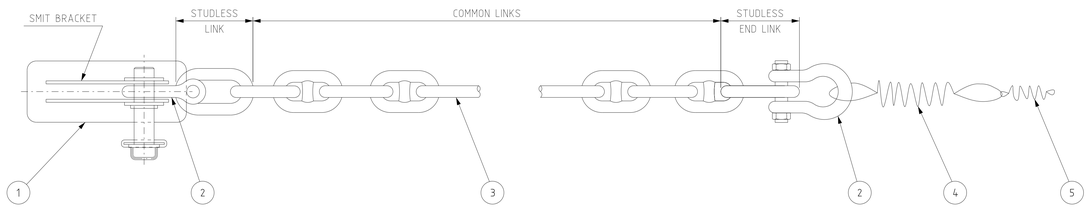
PROJ.	EXEC.	VERF.	APROV.
TECNITAS	MAGNO CASTRO	ROBERTO MARTINS	M. RAMOS
ESCALA: INDICADA	AS. -	SEP. -	FOLHA: 07 de 30
DATA: 12/09/08	Nº: DE-3010.56-5430-980-TNA-001		

A1 = 594x841
CÓPIA NÃO CONTROLADA

MAIN DECK
SCALE 1:200

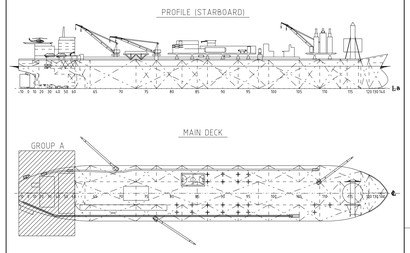


DETAIL 1
SCALE: 1:25



AFT HOOK-UP LIST				
SMIT BRACKET	QT.	DESCRIPTION	SWL (tf)	MINIMUM BREAKING LOAD (tf)
(1) SMIT BRACKET	02	-	200	400
(2) SHACKLE	04	SHACKLE 85 Tf SWL MINIMUM WORKING LOAD LIMIT FACTOR = 3.0	150	459
(3) CHAFING CHAIN	02	CHAIN 76mm MINIMUM LENGTH = 9m (MINIMUM GRADE = 3)	235	470
(4) MESSENGER ROPE	02	POLYPROPILENE ROPE 56mm LENGTH = 100m WITH EYES BOTH ENDS	12.7	38.0
(5) MESSENGER ROPE	02	POLYPROPILENE ROPE 012mm LENGTH = 60m	0.73	2.2

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-421
  FORWARD EMERGENCY TOWING & AFT HOOK-UP ARRANGEMENT

NOTAS GERAIS

1 - OCEAN TOWAGE SHALL BE PERFORMED WITH TUG BOAT 135 Tf CONTINUOUS BOLLARD PULL MINIMUM.

2 - FINAL MACHINED SURFACE. SHACKLE 150 Tf SWL WAS ASSUMED AS PRESENTED IN THE DETAIL 4. COUPLING MUST BE CHECKED IF SOME CHANGE IS PERFORMED IN THE DIMENSIONS STATED.

3 - TOWING LINE BREAKING LOAD = 400 Tns. ALL APPURTENANCES ARE DIMENSIONED ACCORDING TO "DNV - VERITAS MARINE OPERATIONS - RECOMMENDED PRACTICES - SEA TRANSPORTATION", IN ORDER TO PROVIDE A MINIMUM SAFE WORKING LOAD = 150 Tf (MAXIMUM TUG BOLLARD PULL)

4 - HOOK UP LINE BREAKING LOAD = 360 Tf
TUG BOLLARD PULL: MINIMUM = 120 Tf MAXIMUM = 150 Tf

LEGENDA

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.
Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS
E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP A
AFT HOOK-UP ARRANGEMENT
ARRANJO DE GUINCHO À RÉ

PROJ.	EXEC.	VERIF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS

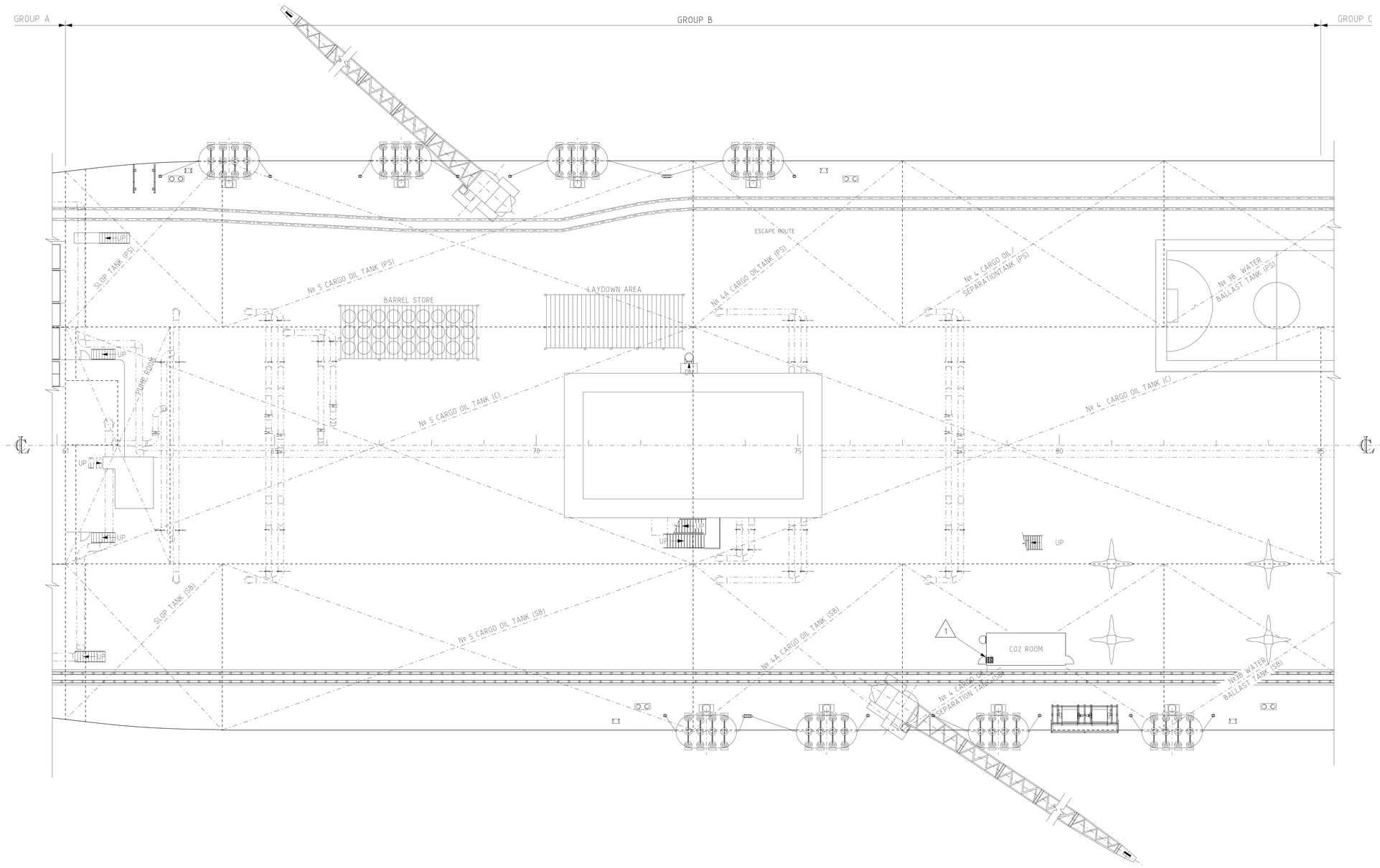
ESCALA	AS.	SEP.	FOLHA
INDICADA	-	-	08 de 30

DATA: 12/09/08
Nº: DE-3010.56-5430-980-TNA-001

A1 = 594x841
COPIA NAO CONTROLADA

MAIN DECK

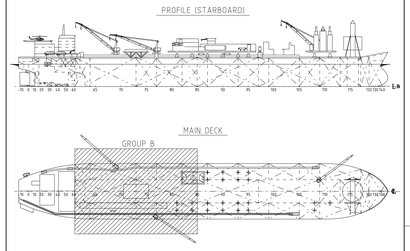
SCALE 1:200



DAMPERS

ITEM	COAMING		TYPE	DECK	COMPARTMENT ACCESS	CONSTRUCTIVE STANDARD (TYPE)
	DIMENSION (A x B) mm	HEIGHT ABOVE DECK (H) mm				
1	600 x 300	–	FT-5251205	MAIN DECK (SB)	CO2 ROOM	–

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- I-DE-3010.56-5250-942-XJM-002
  VAC LAYOUT - PROCESS PLANT SPACE

NOTAS GERAIS

LEGENDA

N DAMPERS

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.

Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS

E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP B
VENTILATION ARRANGEMENT
ARRANJO DE VENTILAÇÃO

PROJ.	EXEC.	VERF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS

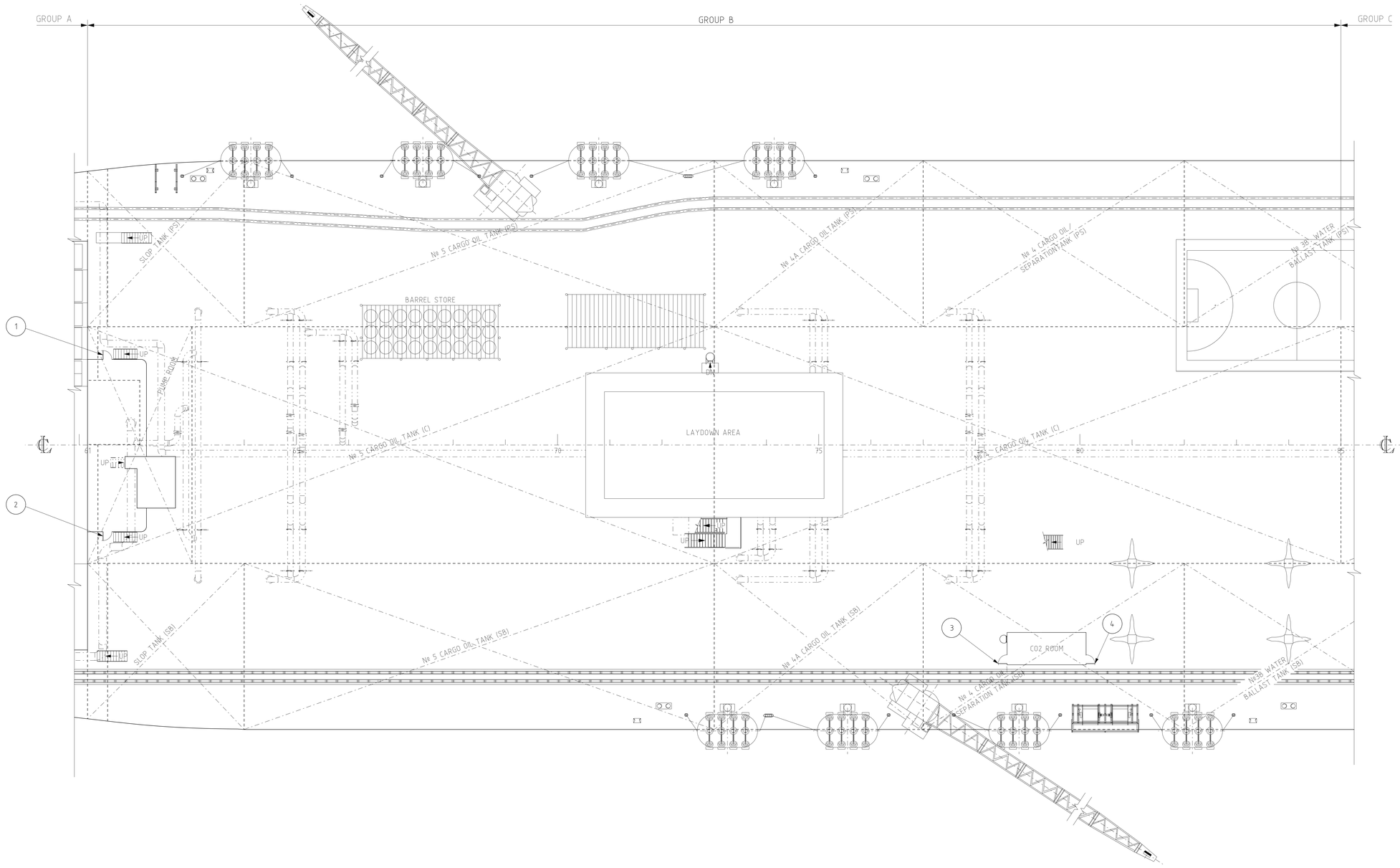
ESCALA	AS.	SEP.	FOLHA
INDICADA	–	–	09 de 30

DATA: 12/09/08

Nº DE-3010.56-5430-980-TNA-001

COPIA NAO CONTROLADA

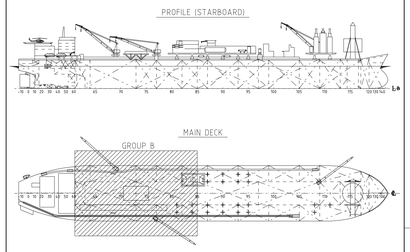
MAIN DECK
SCALE 1:200



DOORS

ITEM	TYPE OF DOOR	SIZE OF OPENING		SILL HEIGHT (H) mm	INSIDE	INSIDE	Nº OF CLIPS	DECK	COMPARTMENT ACCESS	CONSTRUCTIVE STANDARD (TYPE)
		BREADTH (A)	HEIGHT (B)							
1	WE	–	–	–		•	–	MAIN DECK (PS)	PUMP ROOM	–
2	WE	–	–	–	•		–	MAIN DECK (SB)	PUMP ROOM	–
3	WE	800	1750	300		•	–	MAIN DECK (SB)	CO2 ROOM	–
4	WE	800	1750	300	•		–	MAIN DECK (SB)	CO2 ROOM	–

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-146
  HATCHES COAMING AND DOORS IN UPPER DECK (FORWARD & AFT)
- I-DE-3010.56-9310-942-XJM-025
  POWER GENERATION MODULE AND CO2 ROOM - STEEL DOOR ARRANGEMENT

NOTAS GERAIS

LEGENDA

(N) DOORS

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.

Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS

E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP B
WATERTIGHT AND WEATHERTIGHT DOORS ARRANGEMENT
ARRANJO DE PORTAS ESTANQUE

PROJ.	EXEC.	VERF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS

ESCALA: INDICADA | AS. – | SEP. – | FOLHA 10 de 30

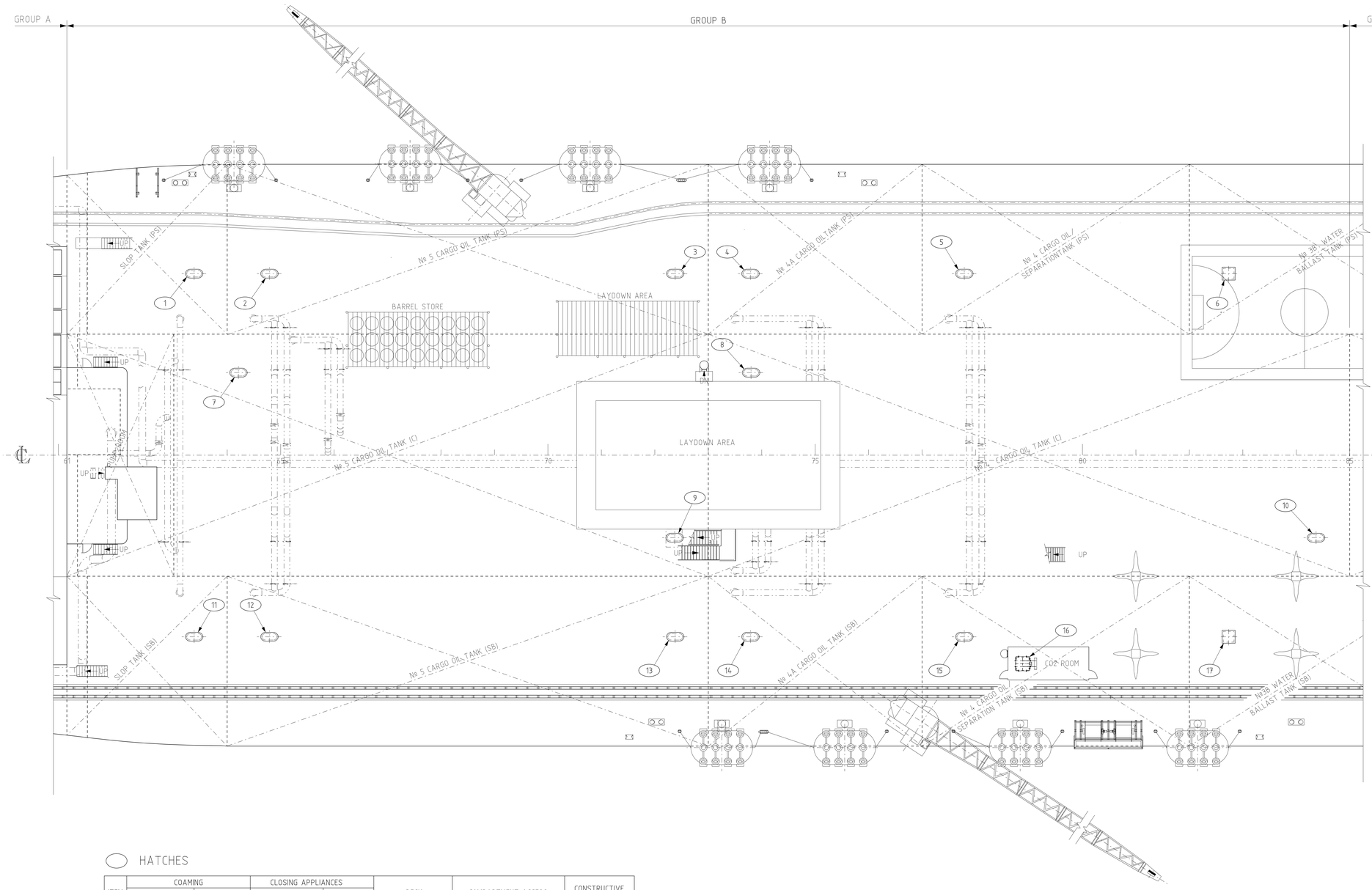
DATA: 12/09/08

Nº DE-3010.56-5430-980-TNA-001

COPIA NAO CONTROLADA

A1 = 594 x 841

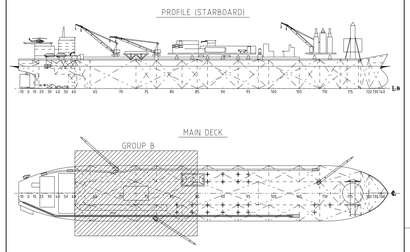
MAIN DECK
SCALE 1:200



HATCHES

ITEM	COAMING		CLOSING APPLIANCES		DECK	COMPARTMENT ACCESS	CONSTRUCTIVE STANDARD (TYPE)
	DIMENSION (A x B) mm	HEIGHT ABOVE DECK (H) mm	GASKET	SECURING DEVICE			
1	–	–	–	–	MAIN DECK (PS)	SLOP TANK (PS)	–
2	–	–	–	–	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (PS)	–
3	–	–	–	–	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (PS)	–
4	–	–	–	–	MAIN DECK (PS)	Nº 4A CARGO OIL TANK (PS)	–
5	–	–	–	–	MAIN DECK (PS)	Nº 4 C. OIL /SEP. TANK (PS)	–
6	–	–	–	–	MAIN DECK (PS)	Nº 3B WATER B. TANK (PS)	–
7	–	–	–	–	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (C)	–
8	–	–	–	–	MAIN DECK (PS)	Nº 4 CARGO OIL TANK (C)	–
9	–	–	–	–	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (C)	–
10	–	–	–	–	MAIN DECK (SB)	Nº 4 CARGO OIL TANK (C)	–
11	–	–	–	–	MAIN DECK (SB)	SLOP TANK (SB)	–
12	–	–	–	–	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (SB)	–
13	–	–	–	–	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (SB)	–
14	–	–	–	–	MAIN DECK (SB)	Nº 4A CARGO OIL TANK (SB)	–
15	–	–	–	–	MAIN DECK (SB)	Nº 4 C. OIL /SEP. TANK (SB)	–
16	–	–	–	–	MAIN DECK (SB)	Nº 4 C. OIL /SEP. TANK (SB)	–
17	–	–	–	–	MAIN DECK (SB)	Nº 3B WATER B. TANK (SB)	–

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-190
  STRUCTURAL INSPECT. TANKS GENERAL ARRANG. OF HATCHES MAIN DECK

NOTAS GERAIS

LEGENDA

(N) HATCHES

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.
Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS
E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP B
HATCHES ARRANGEMENT
ARRANJO DE ESCOTILHÕES

PROJ.	EXEC.	VERIF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS

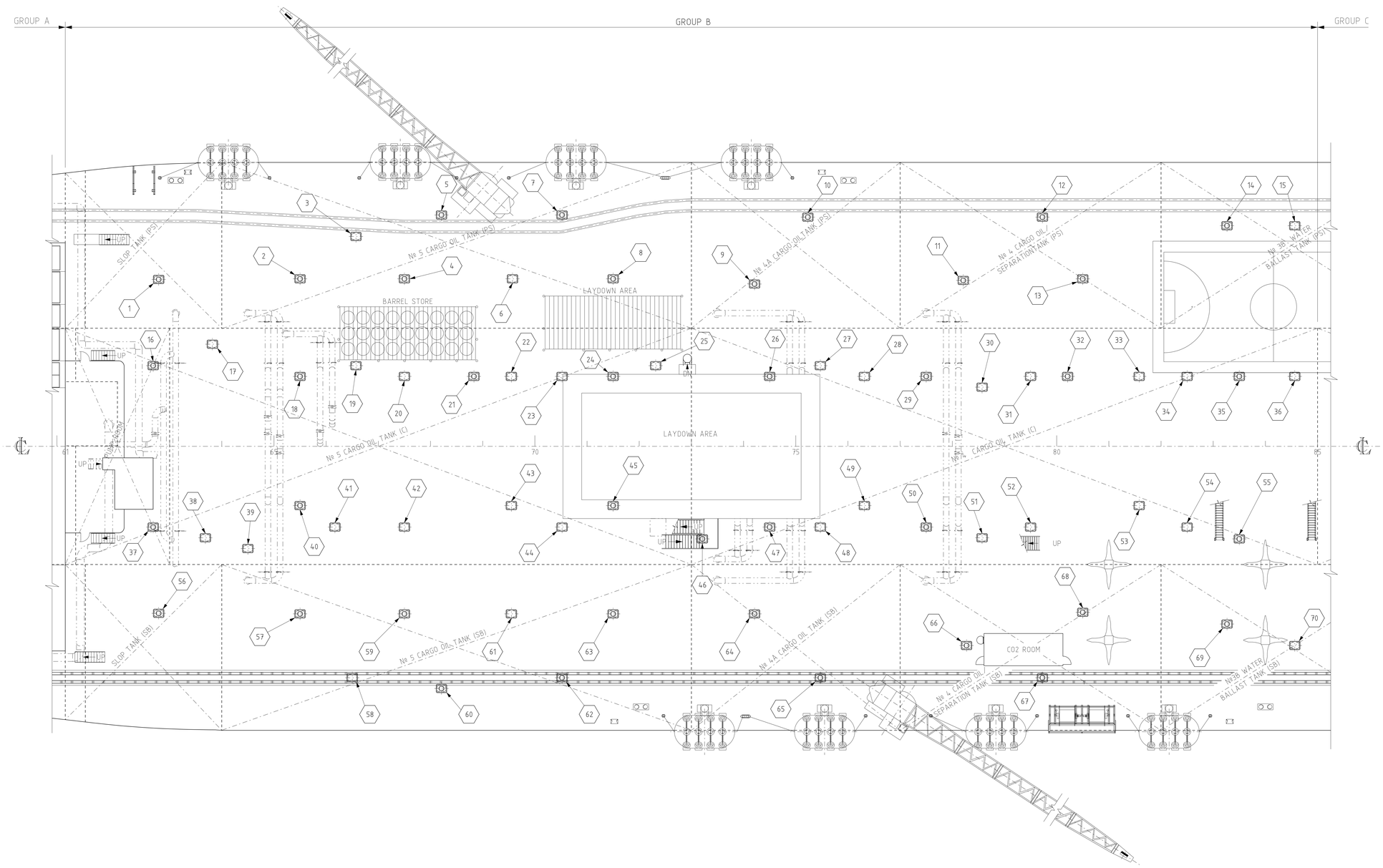
ESCALA: INDICADA | AS. – | SEP. – | FOLHA 11 de 30

DATA: 12/09/08

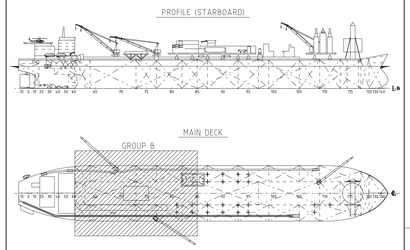
Nº DE-3010.56-5430-980-TNA-001

COPIA NAO CONTROLADA

MAIN DECK
SCALE 1:200



PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-140
  MANHOLES ARRANGEMENT
- DE-3010.56-1200-140-AES-142
  MANHOLE COVER INSPECTION TANK & VENT SYSTEM

NOTAS GERAIS

1 – FOR ITEMS AND CONSTRUCTIVE STANDARD SEE SHEET 13.

LEGENDA

N MANHOLES

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A – FOLHA 08/08.

TECNITAS DO BRASIL LTDA.	Nº DO CONTRATO: 101.2.013.02-2
	RESPONSÁVEL TÉCNICO: CESAR A. BRACET
	Nº DO CREA: 83-1-02202-D
PETRÓLEO BRASILEIRO S.A. PETROBRAS	E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP B
MANHOLES ARRANGEMENT
ARRANJO DE PORTAS DE VISITA

PROJ.	TECNITAS	EXEC. JOÁS MARTINS	VERF. ROBERTO MARTINS	APROV.	M. RAMOS
ESCALA	INDICADA	AS. –	SEP. –	FOLHA	12 de 30
DATA	12/09/08	Nº	DE-3010.56-5430-980-TNA-001		

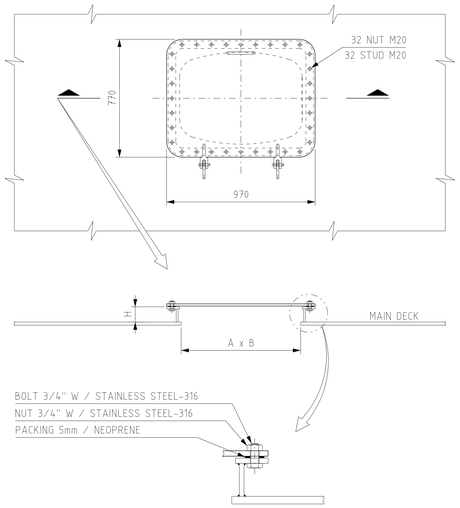
COPIA NAO CONTROLADA

MANHOLES

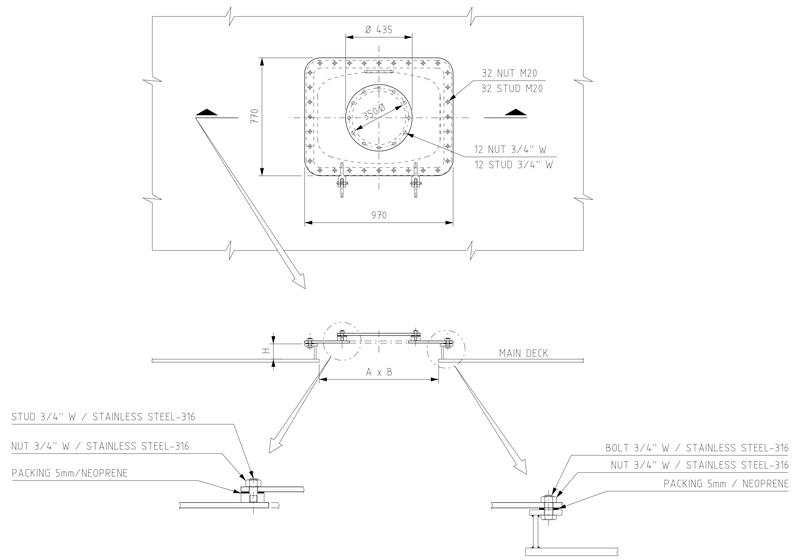
ITEM	COAMING		CLOSING APPLIANCES		DECK	COMPARTMENT ACCESS	CONSTRUCTIVE STANDARD (TYPE)
	DIMENSION (A x B) mm	HEIGHT ABOVE DECK (H) mm	GASKET	SECURING DEVICE			
1	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	SLOP TANK (PS)	TYPE 2
2	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (PS)	TYPE 2
3	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (PS)	TYPE 1
4	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (PS)	TYPE 2
5	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (PS)	TYPE 2
6	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (PS)	TYPE 1
7	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (PS)	TYPE 2
8	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (PS)	TYPE 2
9	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4A CARGO OIL TANK (PS)	TYPE 2
10	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4A CARGO OIL TANK (PS)	TYPE 2
11	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4 CARGO OIL/SEPARATION TANK (PS)	TYPE 2
12	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4 CARGO OIL/SEPARATION TANK (PS)	TYPE 2
13	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4 CARGO OIL/SEPARATION TANK (PS)	TYPE 2
14	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 3B WATER BALLAST TANK (PS)	TYPE 2
15	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 3B WATER BALLAST TANK (PS)	TYPE 1
16	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	PUMP ROOM (PS)	TYPE 2
17	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (C)	TYPE 1
18	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (C)	TYPE 2
19	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (C)	TYPE 1
20	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (C)	TYPE 1
21	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (C)	TYPE 2
22	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (C)	TYPE 1
23	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (C)	TYPE 1
24	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (C)	TYPE 2
25	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 5 CARGO OIL TANK (C)	TYPE 1
26	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4 CARGO OIL TANK (C)	TYPE 2
27	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4 CARGO OIL TANK (C)	TYPE 1
28	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4 CARGO OIL TANK (C)	TYPE 1
29	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4 CARGO OIL TANK (C)	TYPE 2
30	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4 CARGO OIL TANK (C)	TYPE 1
31	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4 CARGO OIL TANK (C)	TYPE 1
32	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4 CARGO OIL TANK (C)	TYPE 2
33	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4 CARGO OIL TANK (C)	TYPE 1
34	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4 CARGO OIL TANK (C)	TYPE 1
35	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4 CARGO OIL TANK (C)	TYPE 2
36	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº 4 CARGO OIL TANK (C)	TYPE 1
37	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	PUMP ROOM (SB)	TYPE 2
38	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (C)	TYPE 1
39	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (C)	TYPE 1
40	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (C)	TYPE 2
41	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (C)	TYPE 1
42	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (C)	TYPE 1
43	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (C)	TYPE 1
44	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (C)	TYPE 1
45	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (C)	TYPE 2
46	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4 CARGO OIL TANK (C)	TYPE 2
47	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4 CARGO OIL TANK (C)	TYPE 2
48	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4 CARGO OIL TANK (C)	TYPE 1
49	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4 CARGO OIL TANK (C)	TYPE 1
50	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4 CARGO OIL TANK (C)	TYPE 2
51	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4 CARGO OIL TANK (C)	TYPE 1
52	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4 CARGO OIL TANK (C)	TYPE 1
53	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4 CARGO OIL TANK (C)	TYPE 1
54	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4 CARGO OIL TANK (C)	TYPE 1
55	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4 CARGO OIL TANK (C)	TYPE 2
56	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	SLOP TANK (SB)	TYPE 2
57	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (SB)	TYPE 2
58	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (SB)	TYPE 1
59	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (SB)	TYPE 2
60	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (SB)	TYPE 2
61	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (SB)	TYPE 1
62	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (SB)	TYPE 2
63	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 5 CARGO OIL TANK (SB)	TYPE 2
64	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4A CARGO OIL TANK (SB)	TYPE 2
65	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4A CARGO OIL TANK (SB)	TYPE 2
66	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4 CARGO OIL/SEPARATION TANK (SB)	TYPE 2
67	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4 CARGO OIL/SEPARATION TANK (SB)	TYPE 2
68	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 4 CARGO OIL/SEPARATION TANK (SB)	TYPE 2
69	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 3B WATER BALLAST TANK (SB)	TYPE 2
70	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº 3B WATER BALLAST TANK (SB)	TYPE 1

CONSTRUCTIVE STANDARD

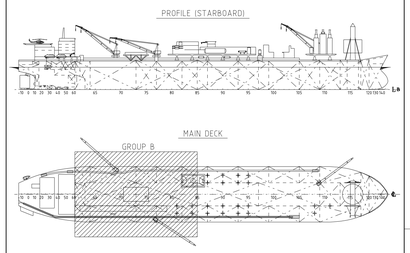
TYPE 1
SCALE 1:20



TYPE 2
SCALE 1:20



PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-140
  MANHOLES ARRANGEMENT
- DE-3010.56-1200-140-AES-142
  MANHOLE COVER INSPECTION TANK & VENT SYSTEM

NOTAS GERAIS

1 - FOR MANHOLES ARRANGEMENT SEE SHEET 12.

LEGENDA

N MANHOLES

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.
Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS
E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP B
MANHOLES - CONSTRUCTIVE STANDARD
PORTAS DE VISITA - PADRÃO CONSTRUTIVO

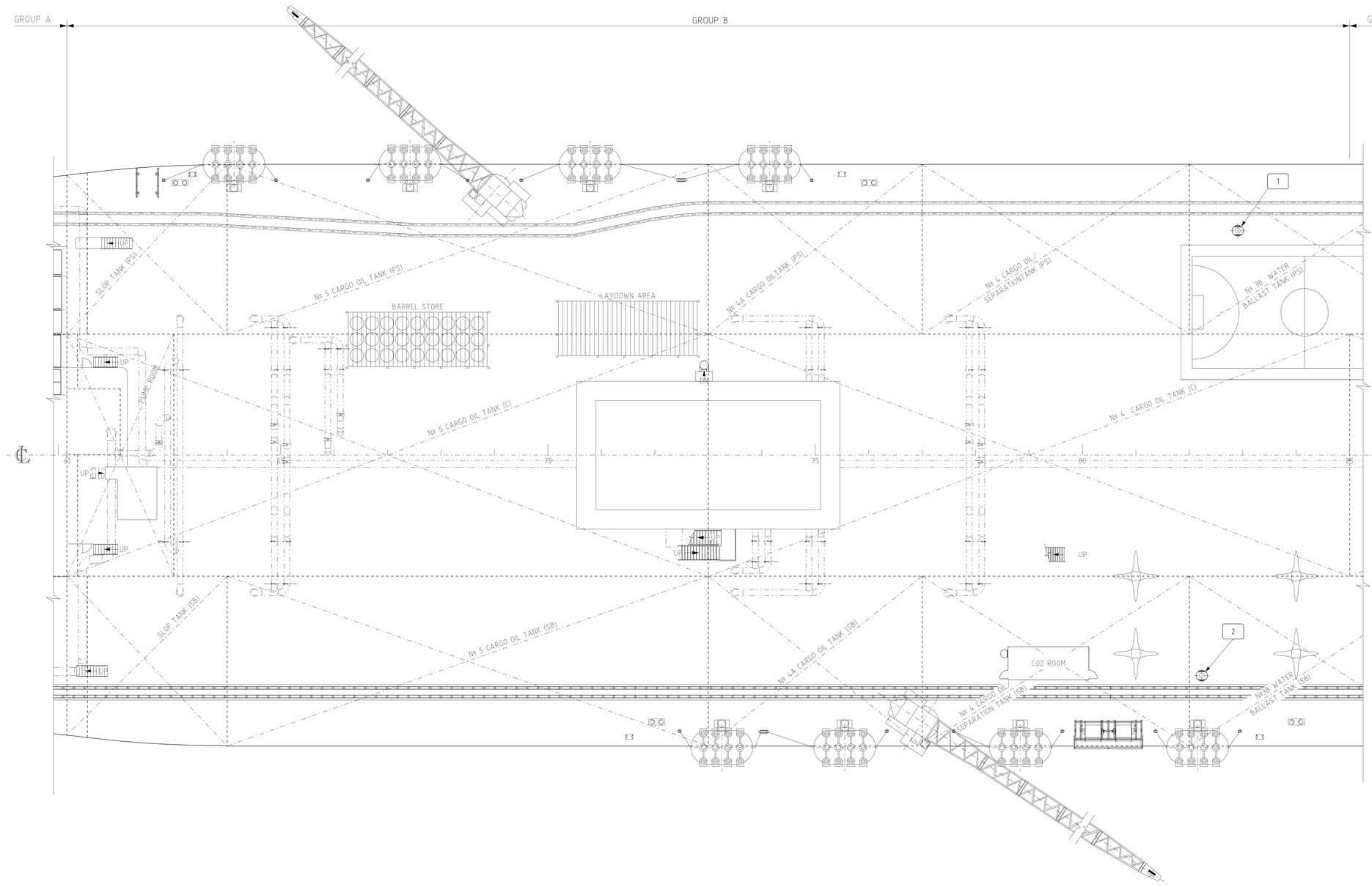
PROJ.	TECNITAS	EXEC.	JOÁS MARTINS	VERIF.	ROBERTO MARTINS	APROV.	M. RAMOS
ESCALA	INDICADA	AS.	-	SEP.	-	FOLHA	13 de 30
DATA	12/09/08	Nº	DE-3010.56-5430-980-TNA-001				

COPIA NAO CONTROLADA

A1 = 594x841

MAIN DECK

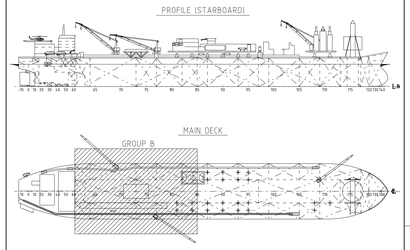
SCALE 1:200



AIR PIPES (VENTS)

ITEM	PIPE ABOVE DECK		DECK	TANKS	CONSTRUCTIVE STANDARD (TYPE)
	DIMENSION	HEIGHT ABOVE DECK (H) mm			
1	10''	700	MAIN DECK (PS)	Nº 3B WATER BALLAST TANK (PS)	-
2	10''	700	MAIN DECK (SB)	Nº 3B WATER BALLAST TANK (SB)	-

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-6360-944-AES-002
  PIPING & INSTRUMENT DIAGRAM
  AIR VENT & SOUNDING OF TANKS/VOID SPACES

NOTAS GERAIS

LEGENDA

N AIR PIPES (VENTS)

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.

Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS

E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP B
AIR PIPES ARRANGEMENT
ARRANJO DE SUSPIROS

PROJ.	EXEC.	VERF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS

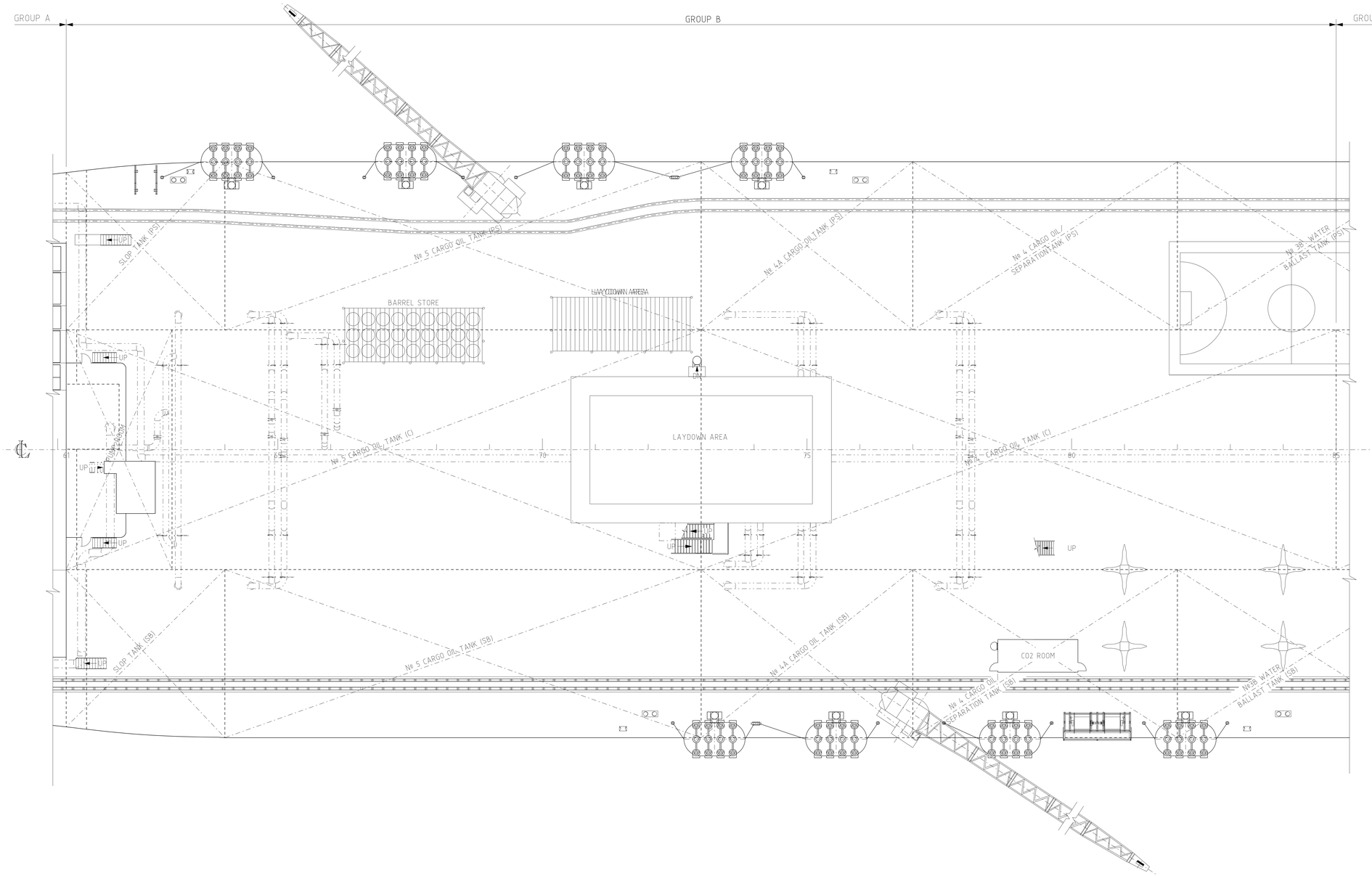
ESCALA	AS.	SEP.	FOLHA
INDICADA	-	-	14 de 30

DATA: 12/09/08

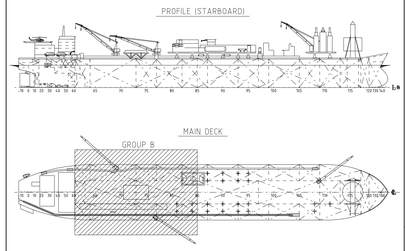
Nº DE-3010.56-5430-980-TNA-001

COPIA NAO CONTROLADA

MAIN DECK
SCALE 1:200



PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT

NOTAS GERAIS

LEGENDA

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.	Nº DO CONTRATO: 101.2.013.02-2
	RESPONSÁVEL TÉCNICO: CESAR A. BRACET
	Nº DO CREA: 83-1-02202-D
PETRÓLEO BRASILEIRO S.A. PETROBRAS	E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

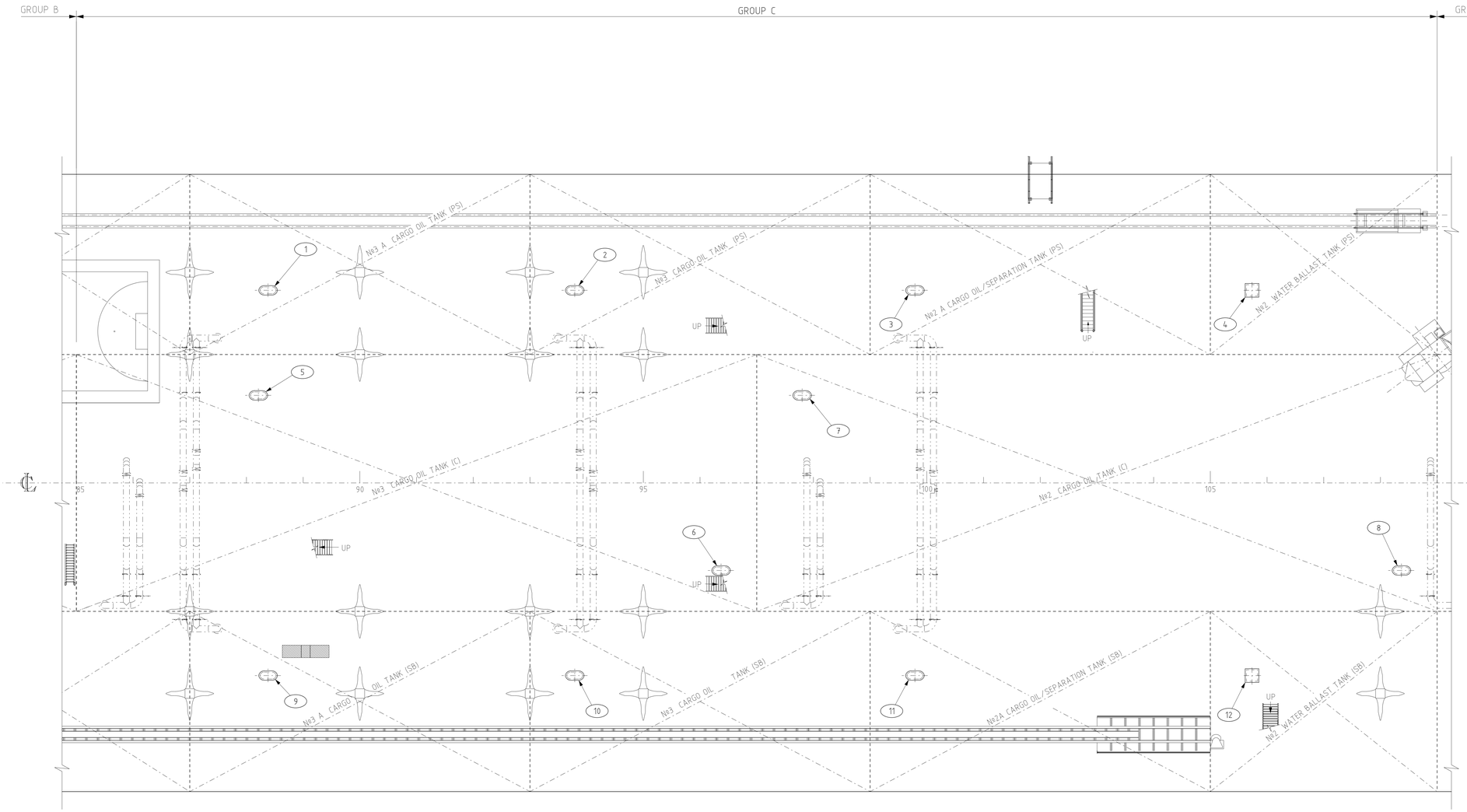
TÍTULO: KIT SALVAGE GROUP B
FENDERS ARRANGEMENT
ARRANJO DAS DEFENSAS

PROJ.	TECNITAS	EXEC.	JOÁS MARTINS	APROV.	M. RAMOS
ESCALA	INDICADA	AS.	-	SEP.	-
DATA	09/04/08	Nº	DE-3010.56-5430-980-TNA-001	FOLHA	15 de 30

COPIA NAO CONTROLADA

A1 = 594x841

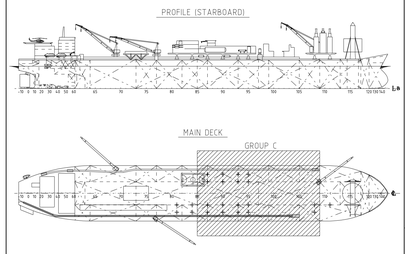
MAIN DECK
SCALE 1:200



HATCHES

ITEM	COAMING		CLOSING APPLIANCES		DECK	COMPARTMENT ACCESS	CONSTRUCTIVE STANDARD (TYPE)
	DIMENSION (A x B) mm	HEIGHT ABOVE DECK (H) mm	GASKET	SECURING DEVICE			
1	–	–	–	–	MAIN DECK (PS)	Nº3A CARGO OIL TANK (PS)	–
2	–	–	–	–	MAIN DECK (PS)	Nº3 CARGO OIL TANK (PS)	–
3	–	–	–	–	MAIN DECK (PS)	Nº2A CARGO OIL/SEPARATION TANK (PS)	–
4	–	–	–	–	MAIN DECK (PS)	Nº2 WATER BALLAST TANK (PS)	–
5	–	–	–	–	MAIN DECK (PS)	Nº3 CARGO OIL TANK (C)	–
6	–	–	–	–	MAIN DECK (SB)	Nº3 CARGO OIL TANK (C)	–
7	–	–	–	–	MAIN DECK (PS)	Nº2 CARGO OIL TANK (C)	–
8	–	–	–	–	MAIN DECK (SB)	Nº2 CARGO OIL TANK (C)	–
9	–	–	–	–	MAIN DECK (SB)	Nº3A CARGO OIL TANK (SB)	–
10	–	–	–	–	MAIN DECK (SB)	Nº3 CARGO OIL TANK (SB)	–
11	–	–	–	–	MAIN DECK (SB)	Nº2A CARGO OIL/SEPARATION TANK (SB)	–
12	–	–	–	–	MAIN DECK (SB)	Nº2 WATER BALLAST TANK (SB)	–

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-190
  STRUCTURAL INSPECT. TANKS GENERAL ARRANG. OF HATCHES MAIN DECK

NOTAS GERAIS

LEGENDA

(N) HATCHES

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.
Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS
E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP C
HATCHES ARRANGEMENT
ARRANJO DE ESCOTILHÕES

PROJ.	EXEC.	VERF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS

ESCALA	AS.	SEP.	FOLHA
INDICADA	–	–	16 de 30

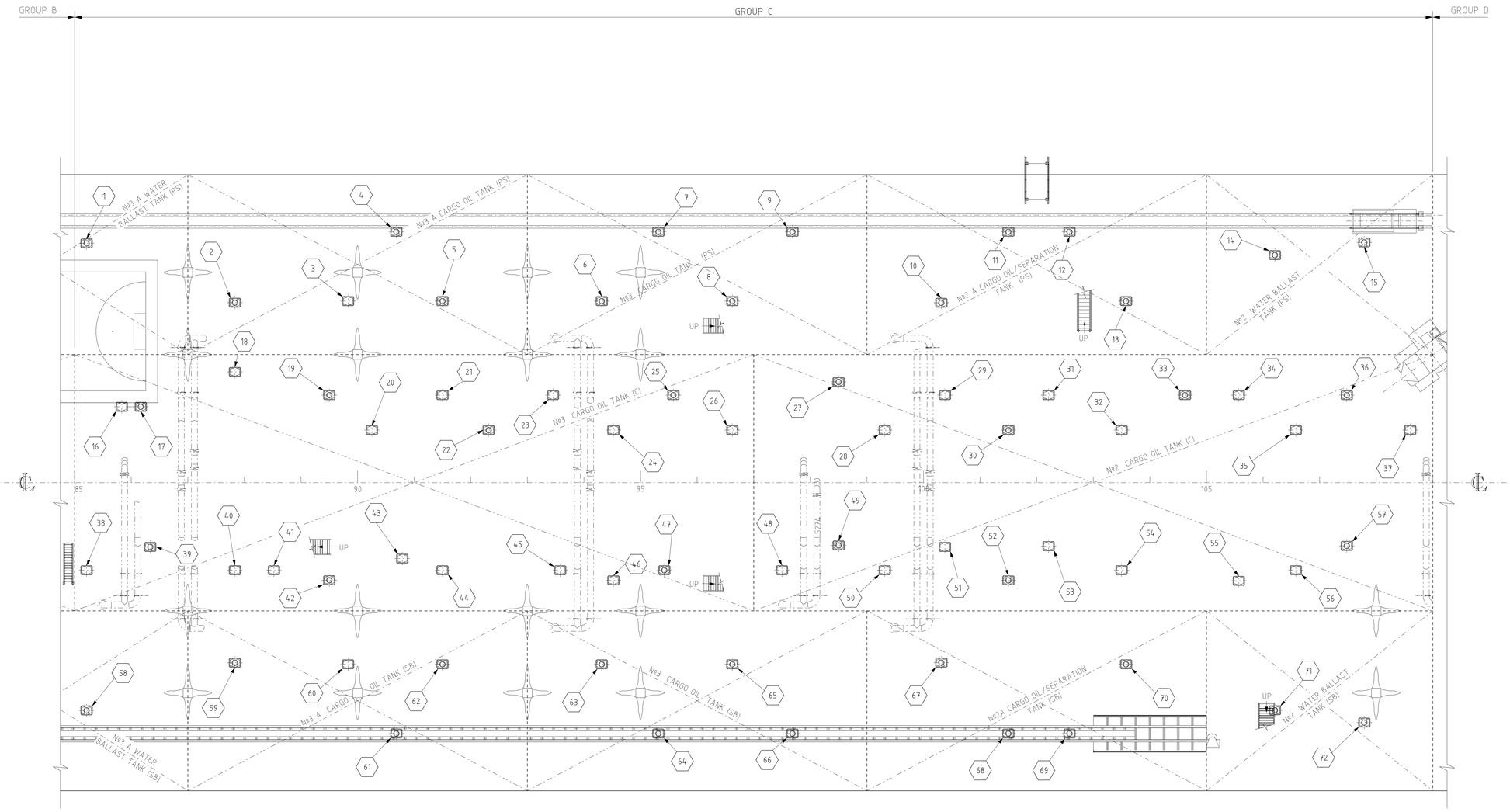
DATA: 12/09/08

Nº DE-3010.56-5430-980-TNA-001

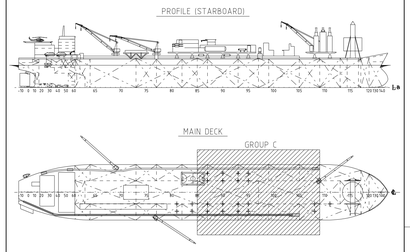
COPIA NAO CONTROLADA

A1 = 594 x 841

MAIN DECK
SCALE 1:200



PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-140
  MANHOLES ARRANGEMENT
- DE-3010.56-1200-140-AES-142
  MANHOLE COVER INSPECTION TANK & VENT SYSTEM

NOTAS GERAIS

1 – FOR ITEMS AND CONSTRUCTIVE STANDARD SEE SHEET 18.

LEGENDA

(N) MANHOLES

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.
Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS
E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP C
MANHOLES ARRANGEMENT
ARRANJO DE PORTAS DE VISITA

PROJ.	EXEC.	VERF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS
ESCALA: INDICADA	AS. –	SEP. –	FOLHA 17 de 30
DATA: 12/09/08	Nº DE-3010.56-5430-980-TNA-001		

CÓPIA NÃO CONTROLADA

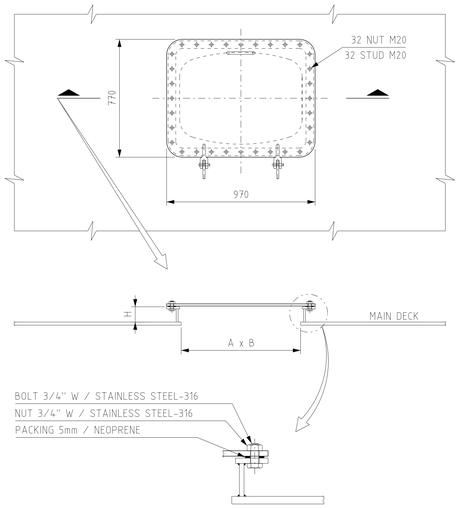
A1 = 594 x 841

MANHOLES

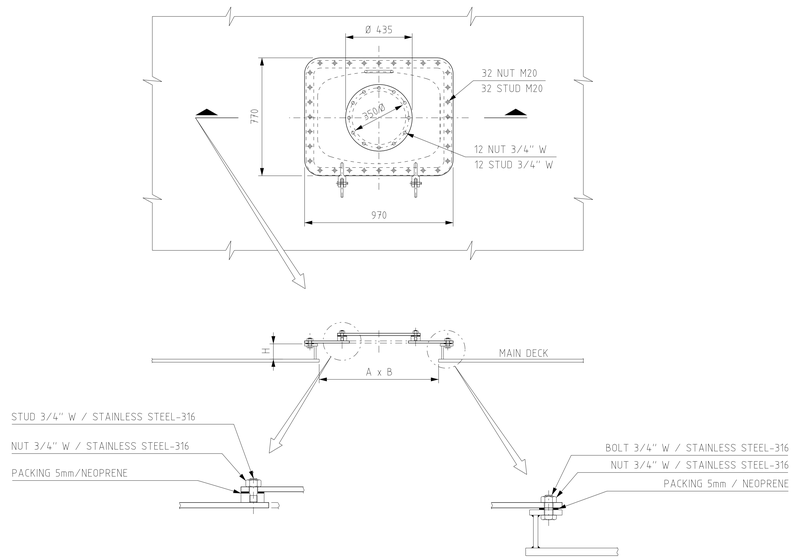
ITEM	COAMING		CLOSING APPLIANCES		DECK	COMPARTMENT ACCESS	CONSTRUCTIVE STANDARD (TYPE)
	DIMENSION (A x B) mm	HEIGHT ABOVE DECK (H) mm	GASKET	SECURING DEVICE			
1	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3A WATER BALLAST TANK (PS)	TYPE 2
2	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3A CARGO OIL TANK (PS)	TYPE 2
3	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3A CARGO OIL TANK (PS)	TYPE 1
4	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3A CARGO OIL TANK (PS)	TYPE 2
5	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3A CARGO OIL TANK (PS)	TYPE 2
6	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (PS)	TYPE 2
7	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (PS)	TYPE 2
8	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (PS)	TYPE 2
9	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (PS)	TYPE 2
10	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2A CARGO OIL / SEPARATION TANK (PS)	TYPE 2
11	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2A CARGO OIL / SEPARATION TANK (PS)	TYPE 2
12	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2A CARGO OIL / SEPARATION TANK (PS)	TYPE 2
13	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2A CARGO OIL / SEPARATION TANK (PS)	TYPE 2
14	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2 WATER BALLAST TANK (PS)	TYPE 2
15	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2 WATER BALLAST TANK (PS)	TYPE 2
16	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (C)	TYPE 1
17	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (C)	TYPE 2
18	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (C)	TYPE 1
19	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (C)	TYPE 2
20	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (C)	TYPE 1
21	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (C)	TYPE 1
22	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (C)	TYPE 2
23	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (C)	TYPE 1
24	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (C)	TYPE 1
25	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (C)	TYPE 2
26	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº3 CARGO OIL TANK (C)	TYPE 1
27	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2 CARGO OIL TANK (C)	TYPE 2
28	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2 CARGO OIL TANK (C)	TYPE 1
29	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2 CARGO OIL TANK (C)	TYPE 1
30	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2 CARGO OIL TANK (C)	TYPE 2
31	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2 CARGO OIL TANK (C)	TYPE 1
32	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2 CARGO OIL TANK (C)	TYPE 1
33	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2 CARGO OIL TANK (C)	TYPE 2
34	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2 CARGO OIL TANK (C)	TYPE 1
35	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2 CARGO OIL TANK (C)	TYPE 1
36	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2 CARGO OIL TANK (C)	TYPE 2
37	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº2 CARGO OIL TANK (C)	TYPE 1
38	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3 CARGO OIL TANK (C)	TYPE 1
39	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3 CARGO OIL TANK (C)	TYPE 2
40	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3 CARGO OIL TANK (C)	TYPE 1
41	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3 CARGO OIL TANK (C)	TYPE 1
42	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3 CARGO OIL TANK (C)	TYPE 2
43	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3 CARGO OIL TANK (C)	TYPE 1
44	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3 CARGO OIL TANK (C)	TYPE 1
45	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3 CARGO OIL TANK (C)	TYPE 1
46	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3 CARGO OIL TANK (C)	TYPE 1
47	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3 CARGO OIL TANK (C)	TYPE 2
48	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2 CARGO OIL TANK (C)	TYPE 1
49	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2 CARGO OIL TANK (C)	TYPE 2
50	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2 CARGO OIL TANK (C)	TYPE 1
51	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2 CARGO OIL TANK (C)	TYPE 1
52	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2 CARGO OIL TANK (C)	TYPE 2
53	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2 CARGO OIL TANK (C)	TYPE 1
54	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2 CARGO OIL TANK (C)	TYPE 1
55	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2 CARGO OIL TANK (C)	TYPE 1
56	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2 CARGO OIL TANK (C)	TYPE 1
57	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2 CARGO OIL TANK (C)	TYPE 2
58	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3A WATER BALLAST TANK (SB)	TYPE 2
59	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3A CARGO OIL TANK (SB)	TYPE 2
60	600x800	100	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3A CARGO OIL TANK (SB)	TYPE 1
61	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3A CARGO OIL TANK (SB)	TYPE 2
62	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3A CARGO OIL TANK (SB)	TYPE 2
63	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3 CARGO OIL TANK (SB)	TYPE 2
64	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3 CARGO OIL TANK (SB)	TYPE 2
65	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3 CARGO OIL TANK (SB)	TYPE 2
66	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº3 CARGO OIL TANK (SB)	TYPE 2
67	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2A CARGO OIL / SEPARATION TANK (SB)	TYPE 2
68	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2A CARGO OIL / SEPARATION TANK (SB)	TYPE 2
69	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2A CARGO OIL / SEPARATION TANK (SB)	TYPE 2
70	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2A CARGO OIL / SEPARATION TANK (SB)	TYPE 2
71	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2 WATER BALLAST TANK (SB)	TYPE 2
72	600x800	100	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº2 WATER BALLAST TANK (SB)	TYPE 2

CONSTRUCTIVE STANDARD

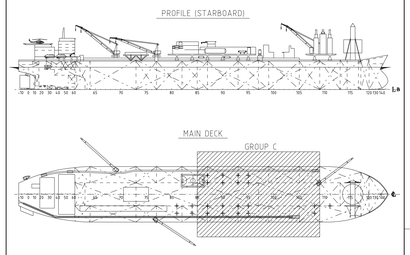
TYPE 1
SCALE 1:20



TYPE 2
SCALE 1:20



PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-140
  MANHOLES ARRANGEMENT
- DE-3010.56-1200-140-AES-142
  MANHOLE COVER INSPECTION TANK & VENT SYSTEM

NOTAS GERAIS

1 – FOR MANHOLES ARRANGEMENT SEE SHEET 17.

LEGENDA

N MANHOLES

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.
Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS
E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

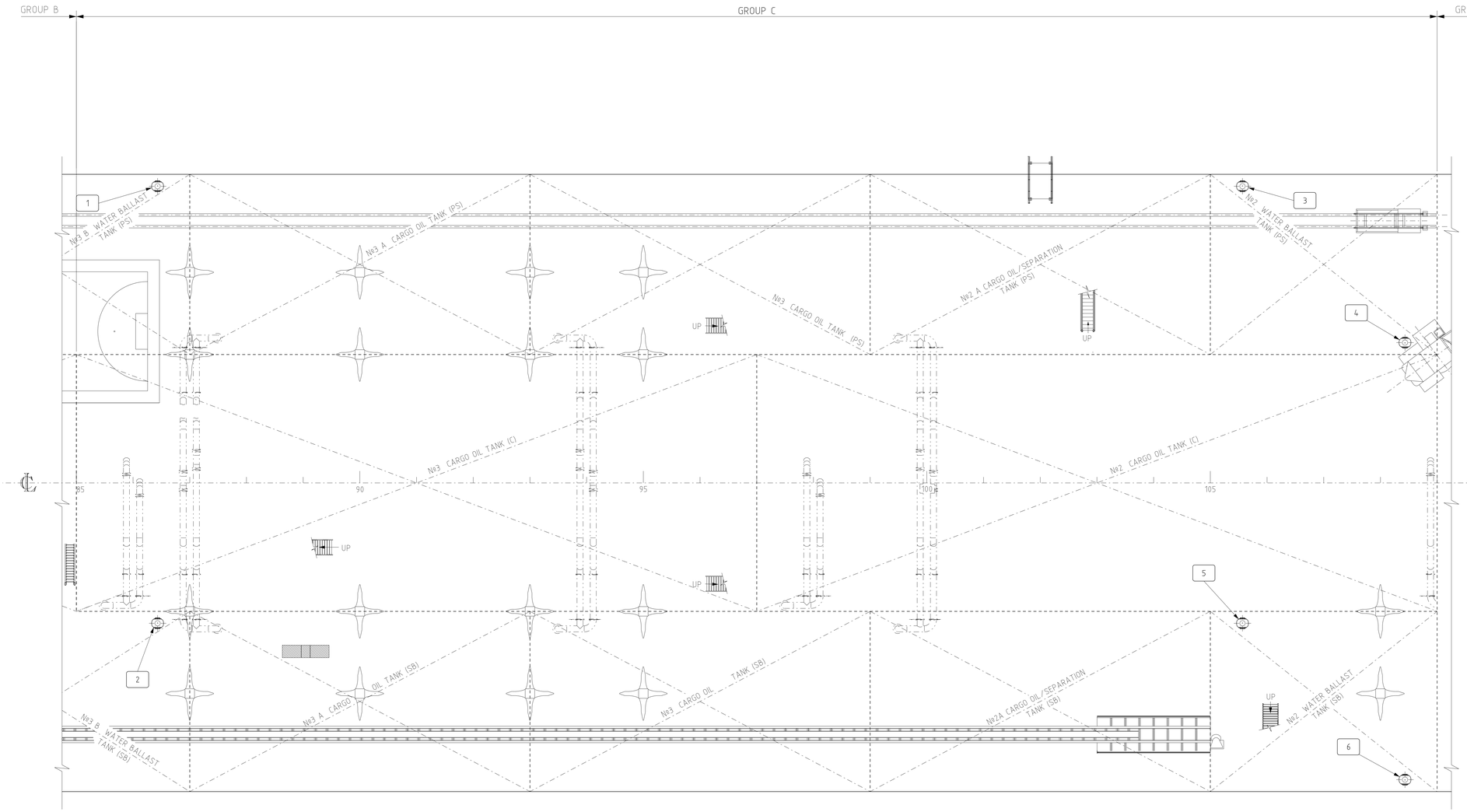
ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP C
MANHOLES ARRANG. – ITEMS AND CONSTR. STANDARD
ARR. DE PORTAS DE VISITA – ITENS E PADRÃO CONSTR.

PROJ.	EXEC.	VERF.	APROV.
TECNITAS	MAGNO CASTRO	ROBERTO MARTINS	M. RAMOS
ESCALA: INDICADA	AS. –	SEP. –	FOLHA: 18 de 30
DATA: 12/09/08	Nº: DE-3010.56-5430-980-TNA-001		

COPIA NAO CONTROLADA

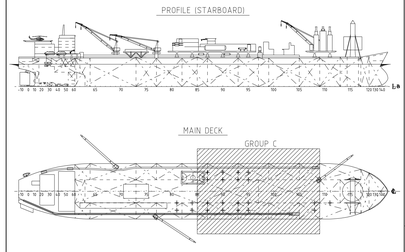
MAIN DECK
SCALE 1:200



AIR PIPES (VENTS)

ITEM	PIPE ABOVE DECK		DECK	TANKS	CONSTRUCTIVE STANDARD (TYPE)
	DIMENSION	HEIGHT ABOVE DECK (H) mm			
1	10''	700	MAIN DECK (PS)	Nº 3B WATER BALLAST TANK (PS)	–
2	10''	700	MAIN DECK (SB)	Nº 3B WATER BALLAST TANK (SB)	–
3	10''	700	MAIN DECK (PS)	Nº2 WATER BALLAST TANK (PS)	–
4	10''	700	MAIN DECK (PS)	Nº2 WATER BALLAST TANK (PS)	–
5	10''	700	MAIN DECK (SB)	Nº2 WATER BALLAST TANK (SB)	–
6	10''	700	MAIN DECK (SB)	Nº2 WATER BALLAST TANK (SB)	–

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-6360-944-AES-002
  PIPING & INSTRUMENT DIAGRAM
  AIR VENT & SOUNDING OF TANKS/VOID SPACES

NOTAS GERAIS

LEGENDA

N AIR PIPES (VENTS)

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.

Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS

E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

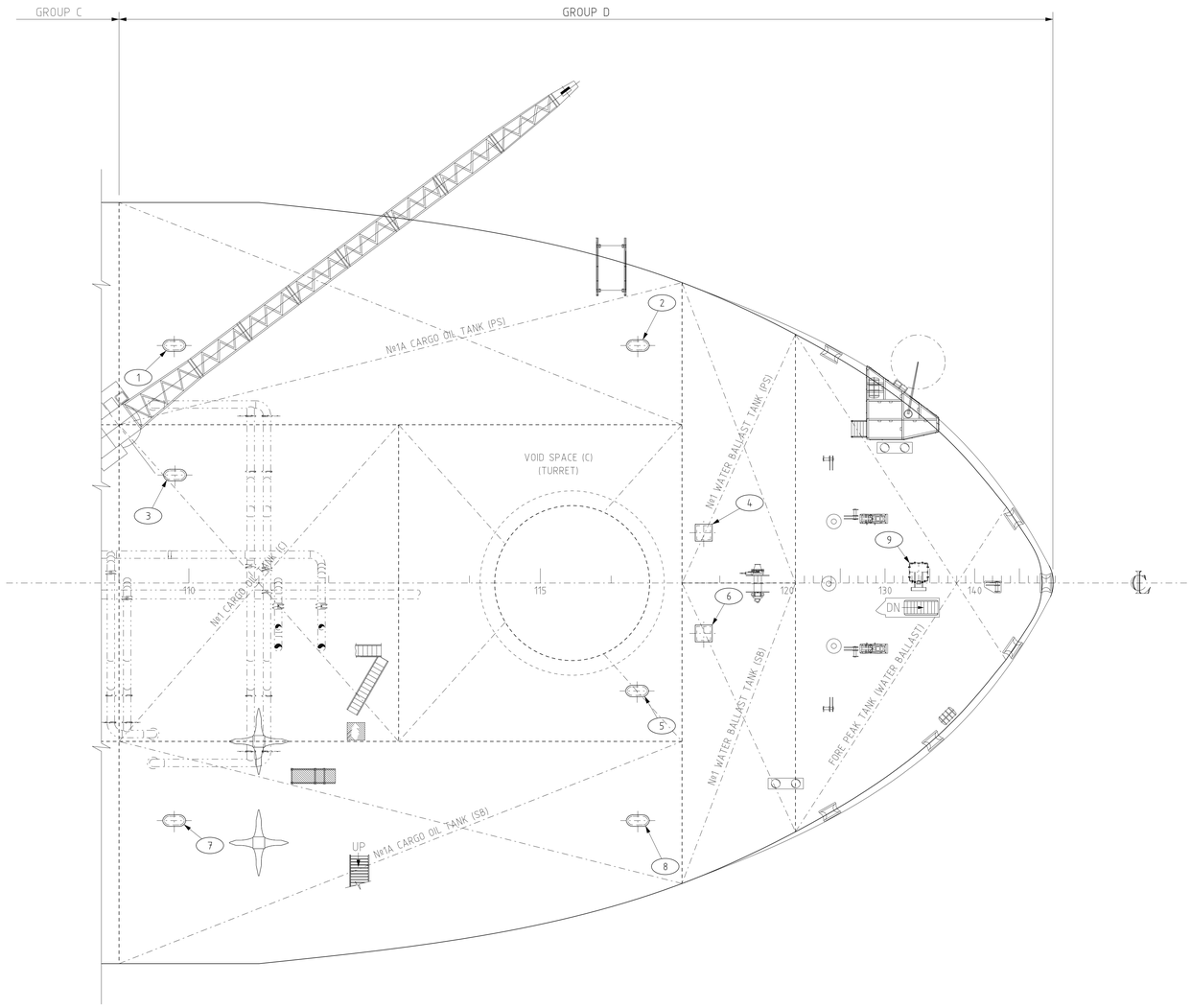
ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP C
AIR PIPES ARRANGEMENT
ARRANJO DE SUSPIROS

PROJ.	EXEC.	VERIF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS
ESCALA: INDICADA	AS. –	SEP. –	FOLHA 19 de 30
DATA: 12/09/08	Nº DE-3010.56-5430-980-TNA-001		

COPIA NAO CONTROLADA

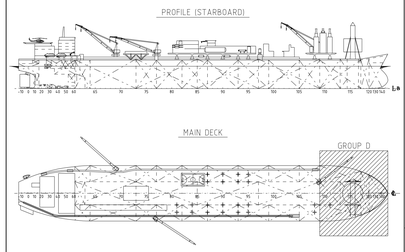
MAIN DECK
SCALE 1:200



HATCHES

ITEM	COAMING		CLOSING APPLIANCES		DECK	COMPARTMENT ACCESS	CONSTRUCTIVE STANDARD (TYPE)
	DIMENSION (A x B) mm	HEIGHT ABOVE DECK (H) mm	GASKET	SECURING DEVICE			
1	–	–	–	–	MAIN DECK (PS)	Nº1A CARGO OIL TANK (PS)	–
2	–	–	–	–	MAIN DECK (PS)	Nº1A CARGO OIL TANK (PS)	–
3	–	–	–	–	MAIN DECK (PS)	Nº1 CARGO OIL TANK (PS)	–
4	–	–	–	–	MAIN DECK (PS)	Nº1 WATER BALLAST TANK (PS)	–
5	–	–	–	–	MAIN DECK (SB)	VOID SPACE (C) (TURRET)	–
6	–	–	–	–	MAIN DECK (SB)	Nº1 WATER BALLAST TANK (SB)	–
7	–	–	–	–	MAIN DECK (SB)	Nº1A CARGO OIL TANK (SB)	–
8	–	–	–	–	MAIN DECK (SB)	Nº1A CARGO OIL TANK (SB)	–
9	–	610	–	–	MAIN DECK (PS)	FORE PEAK TANK (WATER BALLAST)	–

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-190
  STRUCTURAL INSPECT. TANKS GENERAL ARRANG. OF HATCHES MAIN DECK
- DE-3010.56-1200-140-AES-146
  HATCHES COAMING AND DOORS IN UPPER DECK (FORWARD & AFT)

NOTAS GERAIS

LEGENDA

(N) HATCHES

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.
Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS
E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

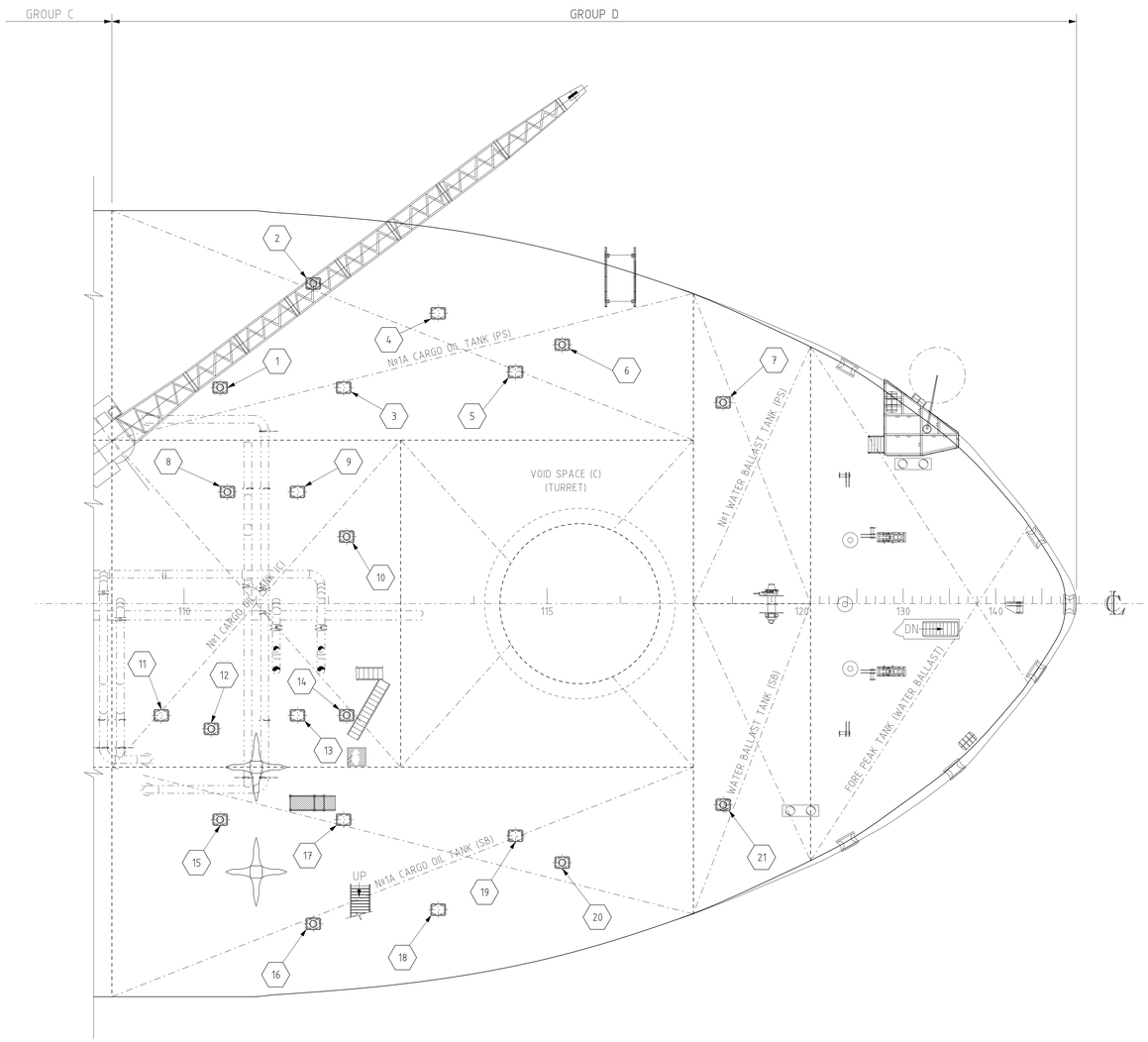
ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP D
HATCHES ARRANGEMENT
ARRANJO DE ESCOTILHÕES

PROJ.	EXEC.	VERF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS
ESCALA: INDICADA	AS. –	SEP. –	FOLHA 20 de 30
DATA: 12/09/08	Nº DE-3010.56-5430-980-TNA-001		

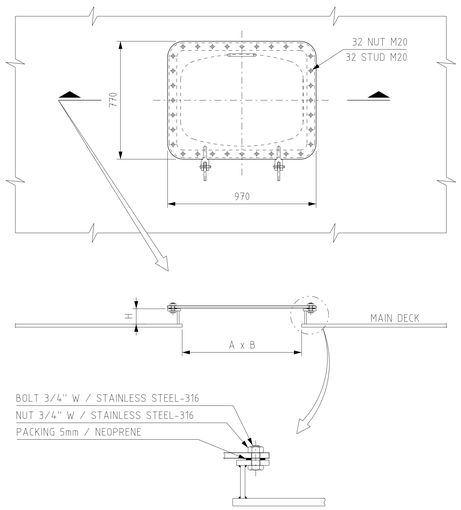
COPIA NAO CONTROLADA

MAIN DECK
SCALE 1:200

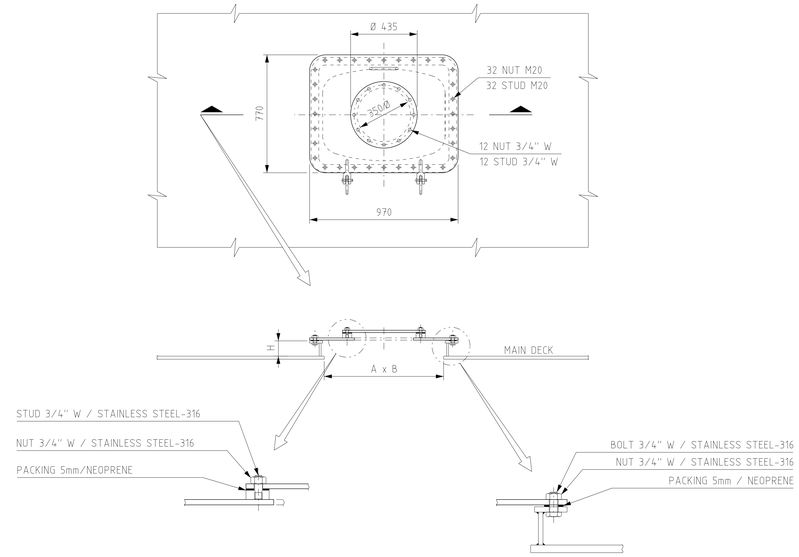


CONSTRUCTIVE STANDARD

TYPE 1
SCALE 1:20



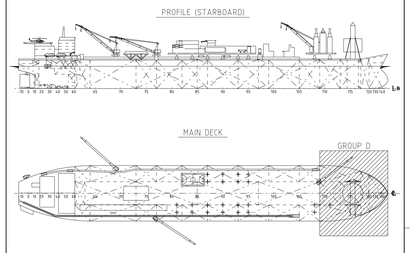
TYPE 2
SCALE 1:20



MANHOLES

ITEM	COAMING		CLOSING APPLIANCES		DECK	COMPARTMENT ACCESS	CONSTRUCTIVE STANDARD (TYPE)
	DIMENSION (A x B) mm	HEIGHT ABOVE DECK (H) mm	GASKET	SECURING DEVICE			
1	600x800	610	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº1A CARGO OIL TANK (PS)	TYPE 2
2	600x800	610	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº1A CARGO OIL TANK (PS)	TYPE 2
3	600x800	610	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº1A CARGO OIL TANK (PS)	TYPE 1
4	600x800	610	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº1A CARGO OIL TANK (PS)	TYPE 1
5	600x800	610	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº1A CARGO OIL TANK (PS)	TYPE 1
6	600x800	610	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº1A CARGO OIL TANK (PS)	TYPE 2
7	600x800	610	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº1 WATER BALLAST TANK (PS)	TYPE 2
8	600x800	610	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº1 CARGO OIL TANK (C)	TYPE 2
9	600x800	610	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº1 CARGO OIL TANK (C)	TYPE 1
10	600x800	610	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (PS)	Nº1 CARGO OIL TANK (C)	TYPE 2
11	600x800	610	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº1 CARGO OIL TANK (C)	TYPE 1
12	600x800	610	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº1 CARGO OIL TANK (C)	TYPE 2
13	600x800	610	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº1 CARGO OIL TANK (C)	TYPE 1
14	600x800	610	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº1 CARGO OIL TANK (C)	TYPE 2
15	600x800	610	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº1A CARGO OIL TANK (SB)	TYPE 2
16	600x800	610	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº1A CARGO OIL TANK (SB)	TYPE 2
17	600x800	610	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº1A CARGO OIL TANK (SB)	TYPE 1
18	600x800	610	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº1A CARGO OIL TANK (SB)	TYPE 1
19	600x800	610	NEOPRENE 5mm	32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº1A CARGO OIL TANK (SB)	TYPE 1
20	600x800	610	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº1A CARGO OIL TANK (SB)	TYPE 2
21	600x800	610	NEOPRENE 5mm	12 STUD BOLT 3/4" W / 32 STUD BOLT 3/4" W	MAIN DECK (SB)	Nº1 WATER BALLAST TANK (SB)	TYPE 2

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-140
  MANHOLES ARRANGEMENT
- DE-3010.56-1200-140-AES-142
  MANHOLE COVER INSPECTION TANK & VENT SYSTEM

NOTAS GERAIS

LEGENDA

N MANHOLES

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.
Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS
E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

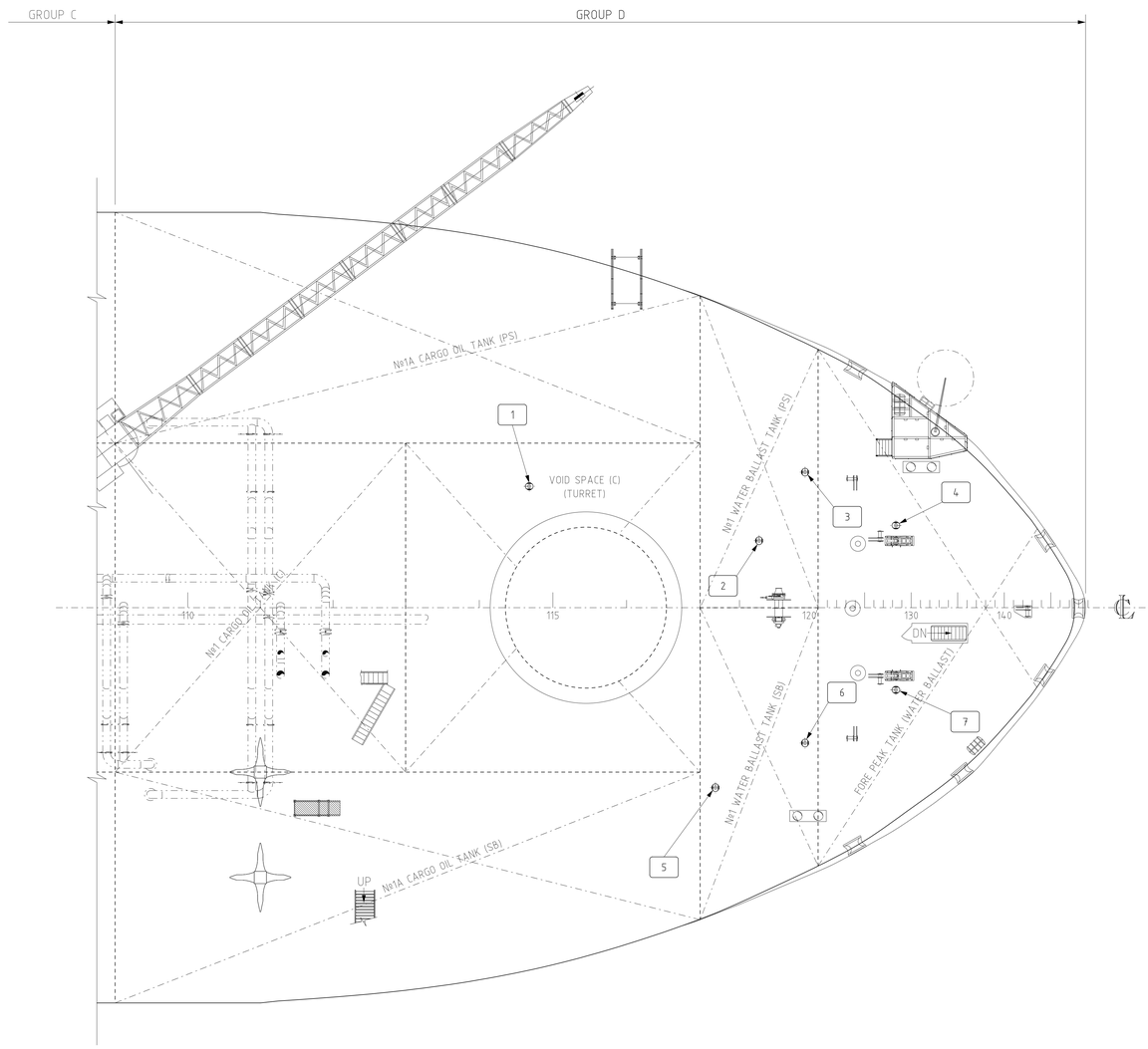
ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP D
MANHOLES ARRANGEMENT AND CONSTRUCTIVE STANDARD
ARRANJO DE PORTAS DE VISITA E PADRÃO CONSTRUTIVO

PROJ.	EXEC.	VERF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS
ESCALA: INDICADA	AS. -	SEP. -	FOLHA: 21 de 30
DATA: 12/09/08	Nº: DE-3010.56-5430-980-TNA-001		

COPIA NAO CONTROLADA

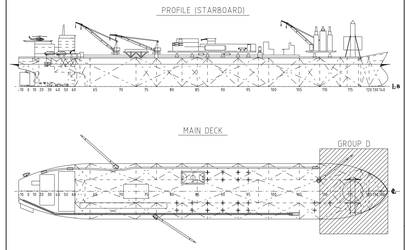
MAIN DECK
SCALE 1:200



AIR PIPES (VENTS)

ITEM	PIPE ABOVE DECK		DECK	TANKS	CONSTRUCTIVE STANDARD (TYPE)
	DIMENSION	HEIGHT ABOVE DECK (H) mm			
1	4"	700	MAIN DECK (PS)	VOID SPACE (C) (TURRET)	-
2	10"	700	MAIN DECK (PS)	Nº1 WATER BALLAST TANK (PS)	-
3	2"	700	MAIN DECK (PS)	Nº1 WATER BALLAST TANK (PS)	-
4	10"	700	MAIN DECK (PS)	FORE PEAK TANK (WATER BALLAST)	-
5	10"	700	MAIN DECK (SB)	Nº1 WATER BALLAST TANK (SB)	-
6	2"	700	MAIN DECK (SB)	Nº1 WATER BALLAST TANK (SB)	-
7	10"	700	MAIN DECK (SB)	FORE PEAK TANK (WATER BALLAST)	-

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-6360-944-AES-002
  PIPING & INSTRUMENT DIAGRAM
  AIR VENT & SOUNDING OF TANKS/VOID SPACES

NOTAS GERAIS

LEGENDA

N AIR PIPES (VENTS)

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE À NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.	Nº DO CONTRATO: 101.2.013.02-2
	RESPONSÁVEL TÉCNICO: CESAR A. BRACET
	Nº DO CREA: 83-1-02202-D
PETRÓLEO BRASILEIRO S.A. PETROBRAS	E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP D
AIR PIPES ARRANGEMENT
ARRANJO DE SUSPIROS

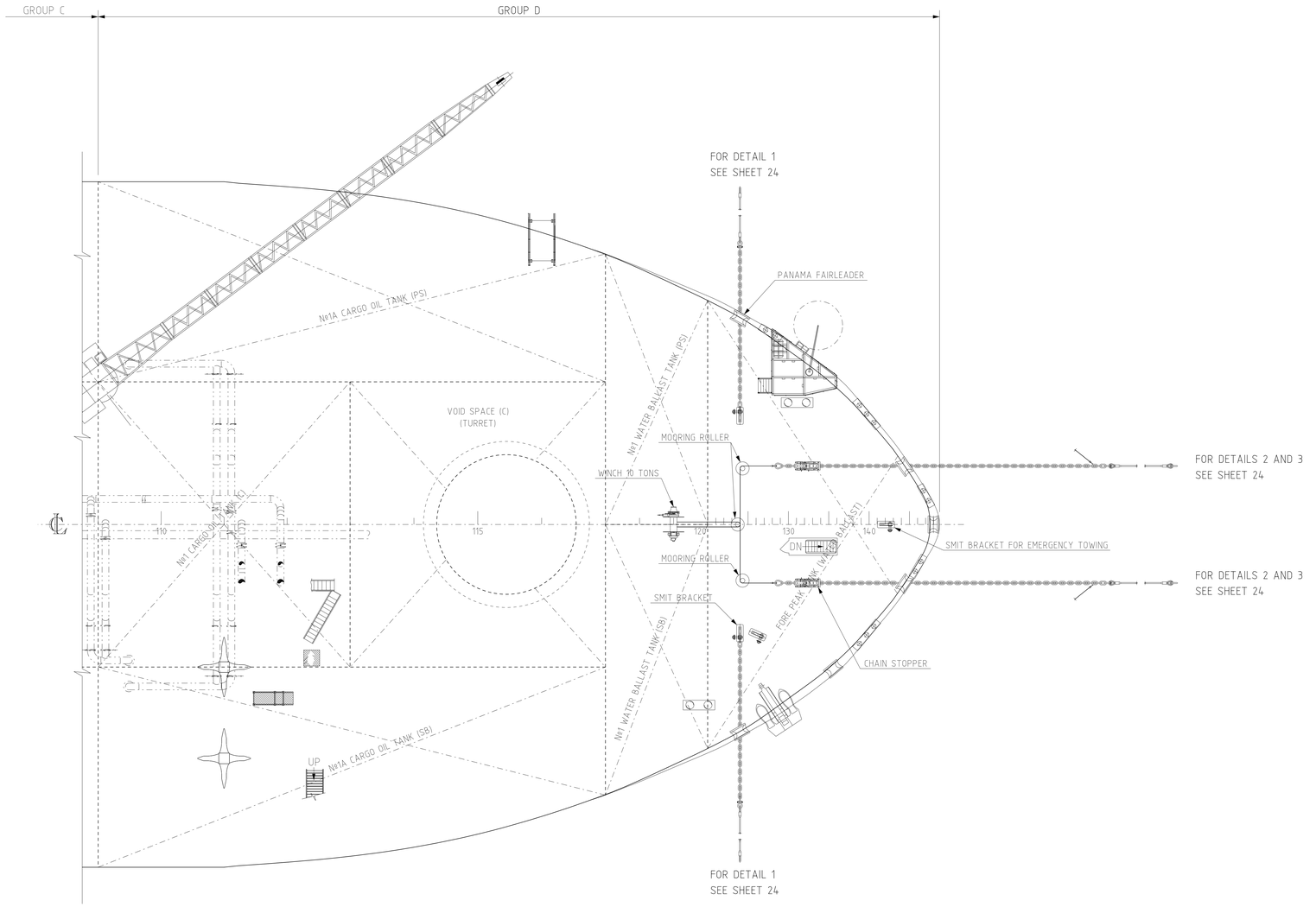
PROJ.	TECNITAS	EXEC.	JOÁS MARTINS	VERIF.	ROBERTO MARTINS	APROV.	M. RAMOS
ESCALA	INDICADA	AS.	-	SEP.	-	FOLHA	22 de 30
DATA	12/09/08	Nº	DE-3010.56-5430-980-TNA-001				

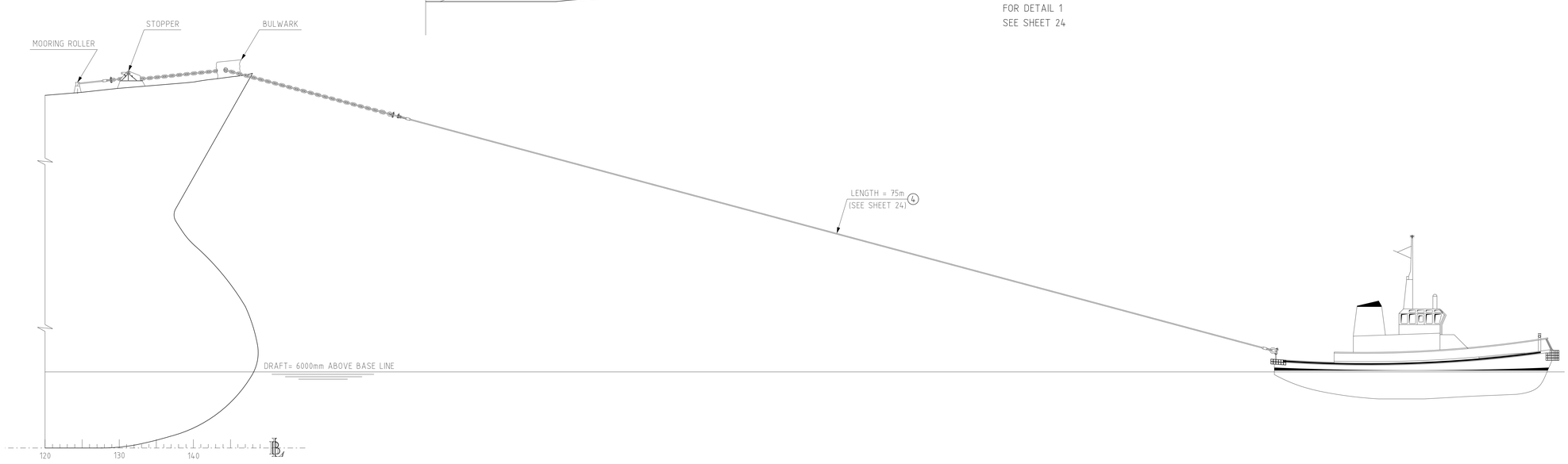
COPIA NAO CONTROLADA

A1 = 594x841

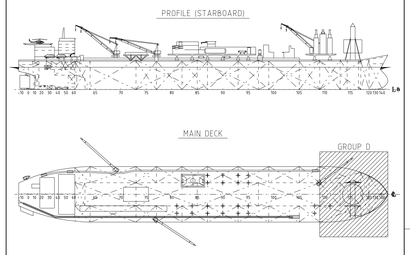
G H I J K L M N
F E D C B A

MAIN DECK
SCALE 1:200





PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-420
  FORWARD TOWING & HOOK UP ARRANGEMENT

NOTAS GERAIS

1 - OCEAN TOWAGE SHALL BE PERFORMED WITH TUG BOAT 135 Tf CONTINUOUS BOLLARD PULL MINIMUM.

2 - FINAL MACHINED SURFACE. SHACKLE 150 Tf SWL WAS ASSUMED AS PRESENTED IN THE DETAIL 4. COUPLING MUST BE CHECKED IF SOME CHANGE IS PERFORMED IN THE DIMENSIONS STATED.

3 - TOWING LINE BREAKING LOAD = 400 Tns. ALL APPURTENANCES ARE DIMENSIONED ACCORDING TO "DNV - VERITAS MARINE OPERATIONS - RECOMMENDED PRACTICES - SEA TRANSPORTATION", IN ORDER TO PROVIDE A MINIMUM SAFE WORKING LOAD = 150 Tf (MAXIMUM TUG BOLLARD PULL)

4 - HOOK UP LINE BREAKING LOAD = 360 Tf
TUG BOLLARD PULL: MINIMUM = 120 Tf MAXIMUM = 150 Tf

LEGENDA

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.	Nº DO CONTRATO: 101.2.013.02-2
	RESPONSÁVEL TÉCNICO: CESAR A. BRACET
	Nº DO CREA: 83-1-02202-D
PETRÓLEO BRASILEIRO S.A. PETROBRAS	E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

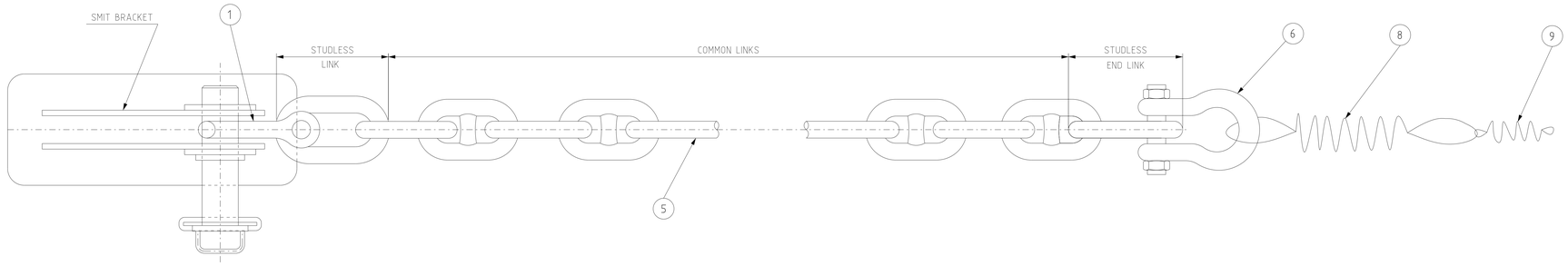
ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP D
TOWING ARRANGEMENT
ARRANJO DE REBOQUE

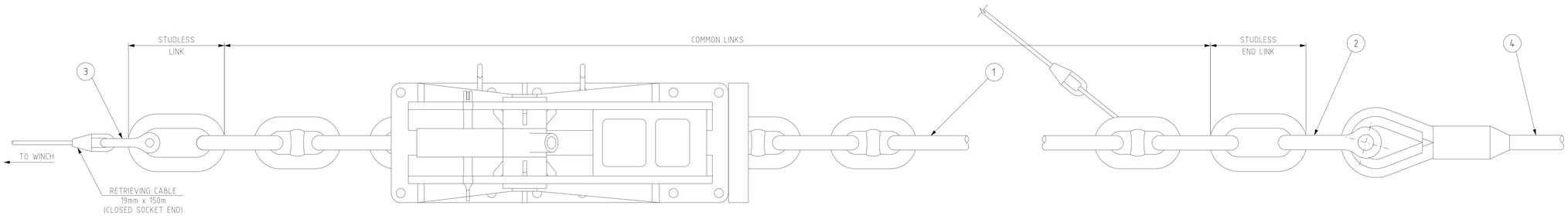
PROJ.	EXEC.	VERIF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS
ESCALA: INDICADA	AS. -	SEP. -	FOLHA: 23 de 30
DATA: 12/09/08	Nº DE-3010.56-5430-980-TNA-001		

A1 = 594x841
CÓPIA NÃO CONTROLADA

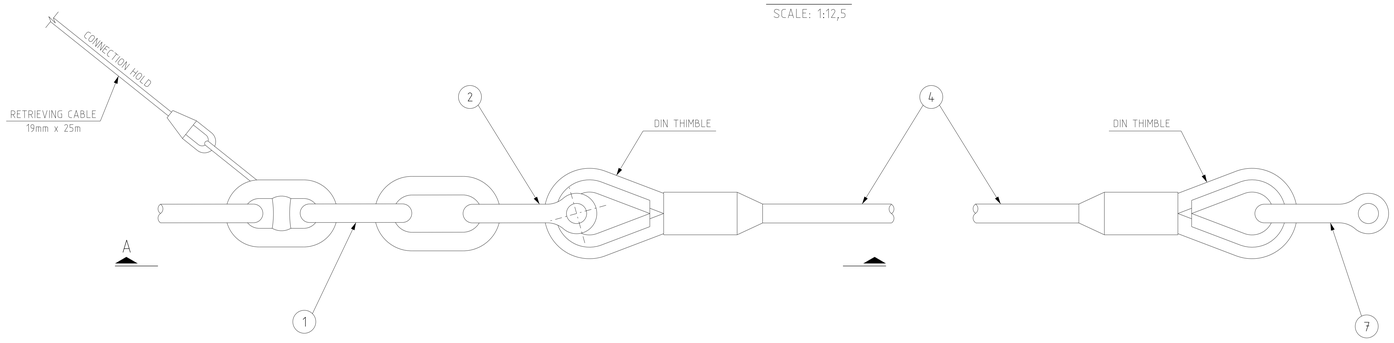
DETAIL 1
SCALE: 1:12,5



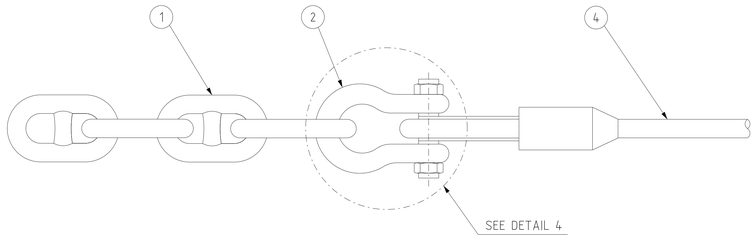
DETAIL 2
SCALE: 1:12,5



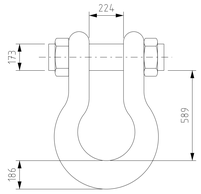
DETAIL 3
SCALE: 1:12,5



SECTION A
SCALE: 1:12,5



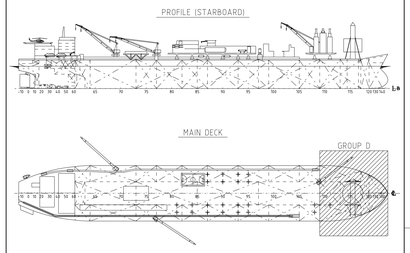
DETAIL 4
SCALE: 1:20
(SEE NOTE 2)



TOWING AND FORWARD HOOK-UP LIST						
ITEM	NAME	DESCRIPTION	QTY.	SWL	MBL	NOTE
1	CHAFING CHAIN	CHAIN 76mm LENGTH = 27.5m MATERIAL NVK3-RIG OR SIMILAR (MINIMUM GRADE = 3)	02	235	470	-
2	SHACKLE	SHACKLE 150 Tf SWL CROSBY G-2130 OR SIMILAR	02	150	459	-
3	SHACKLE	SHACKLE 25 Tf SWL CROSBY G-2130 OR SIMILAR	02	25	135	-
4	PENNANT WIRE	WIRE 76mm 6x41 IWRC LENGTH = 75m HARD EYES WITH GLOOVES AND THIMBLE BOTH ENDS	02	200	400	-
5	CHAFING CHAIN	CHAIN 76mm MINIMUM LENGTH = 9m (MINIMUM GRADE = 3)	02	235	470	-
6	SHACKLE	SHACKLE 85 Tf SWL	04	150	459	-
7	SHACKLE	SHACKLE 85 Tf SWL CROSBY G-2130 OR SIMILAR MINIMUM WORKING LOAD LIMIT FACTOR = 3.0 (SEE ALSO NOTE 3)	02	150	459	-
8	MESSENGER ROPE	POLYPROPILENE ROPE 56mm x 100m WITH EYES BOTH ENDS	02	12.7	38.0	-
9	MESSENGER ROPE	POLYPROPILENE ROPE 12mm x 60m	02	0.73	2.2	-

MBL= MINIMUM BREAK LOAD
SWL= SAFETY WORK LOAD

PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-420
  FORWARD TOWING & HOOK UP ARRANGEMENT

NOTAS GERAIS

LEGENDA

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.

Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS

E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

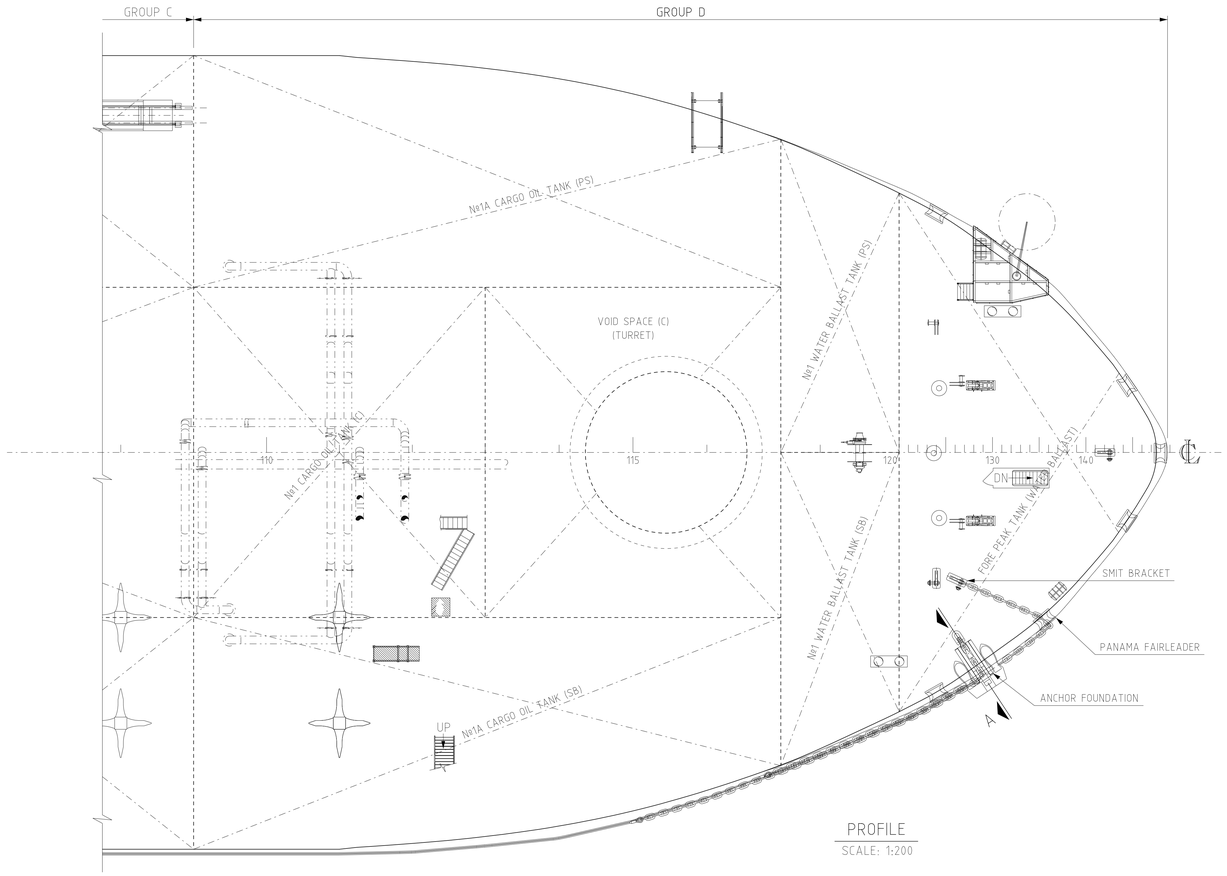
TÍTULO: KIT SALVAGE GROUP D
TOWING ARRANG. AND RETRIVEL SYSTEM - DETAILS
ARR. DE REBOQUE E SISTEMA DE AMARRAÇÃO - DETALHES

PROJ.	TECNITAS	EXEC.	JOÁS MARTINS	VERIF.	ROBERTO MARTINS	APROV.	M. RAMOS
ESCALA	INDICADA	AS.	-	SEP.	-	FOLHA	24 de 30
DATA	12/09/08	Nº	DE-3010.56-5430-980-TNA-001				

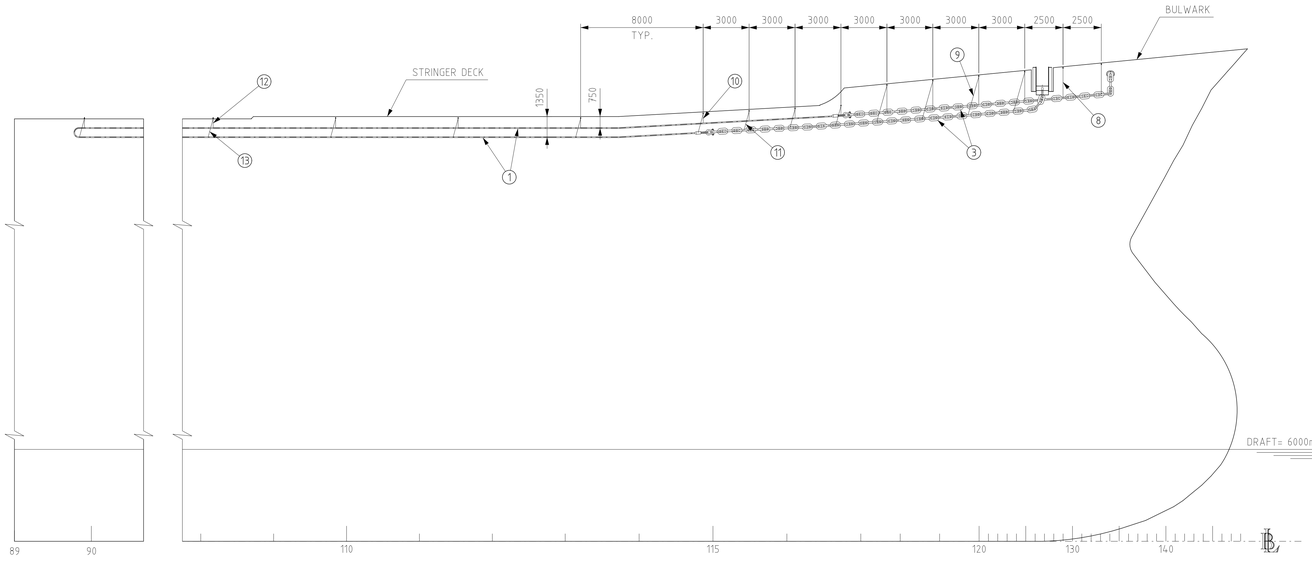
COPIA NAO CONTROLADA

A1 = 594x841

MAIN DECK
SCALE 1:200



PROFILE
SCALE: 1:200

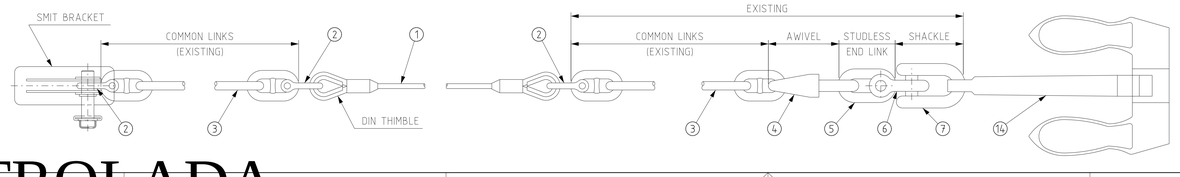


SECTION A
SCALE: 1:25

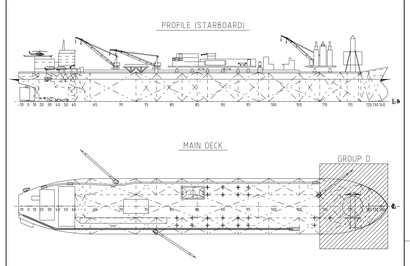
ANCHOR EMERGENCY LIST						
ITEM	NAME	DESCRIPTION	QTY.	SWL	MBL	NOTE
1	PENNANT WIRE	WIRE 64mm 6x41 IWRC LENGTH = 250m HARD EYES WITH THIMBLES BOTH ENDS	01	150	280	–
2	SHACKLE	SHACKLE 85 Tf SWL CROSBY G-2130 OR SIMILAR MINIMUM WORKING LOAD ALSO LIMIT FACTOR = 3.0	03	150	459	–
3	CHAFING CHAIN	CHAIN 111mm LENGTH = 27.5m (EXISTING)	02	216	433	–
4	SWIVEL	SWIVEL (EXISTING)	01	–	–	–
5	CHAIN	STUDLESS END LINK 130mm (EXISTING)	01	–	–	–
6	SCHACKLE	SHACKLE (EXISTING)	02	–	–	–
7	PADEYE	PADEYE 1.5 Tn	25	1.5	3	–
8	ROPE	NATURAL FIBER ROPE 18mm LENGTH = 1.2m	06	0.7	2.1	–
9	ROPE	NATURAL FIBER ROPE 18mm LENGTH = 1.8m	04	0.7	2.1	–
10	ROPE	NATURAL FIBER ROPE 18mm LENGTH = 1.2m	07	0.7	2.1	–
11	ROPE	NATURAL FIBER ROPE 18mm LENGTH = 1.5m	07	0.7	2.1	–
12	ROPE	NATURAL FIBER ROPE 18mm LENGTH = 1.0m	16	0.7	2.1	–
13	ROPE	NATURAL FIBER ROPE 18mm LENGTH = 1.3m	12	0.7	2.1	–
14	ANCHOR	ANCHOR 21.5 Tn (EXISTING)	01	–	–	–

MBL= MINIMUM BREAK LOAD
SWL= SAFETY WORK LOAD

EMERGENCY ANCHOR ARRANGEMENT
SCALE: 1:40



PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-424
  EMERGENCY ANCHOR ARRANGEMENT

NOTAS GERAIS

LEGENDA

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE À NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.

Nº DO CONTRATO:	101.2.013.02-2
RESPONSÁVEL TÉCNICO:	CESAR A. BRACET
Nº DO CREA:	83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS — E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

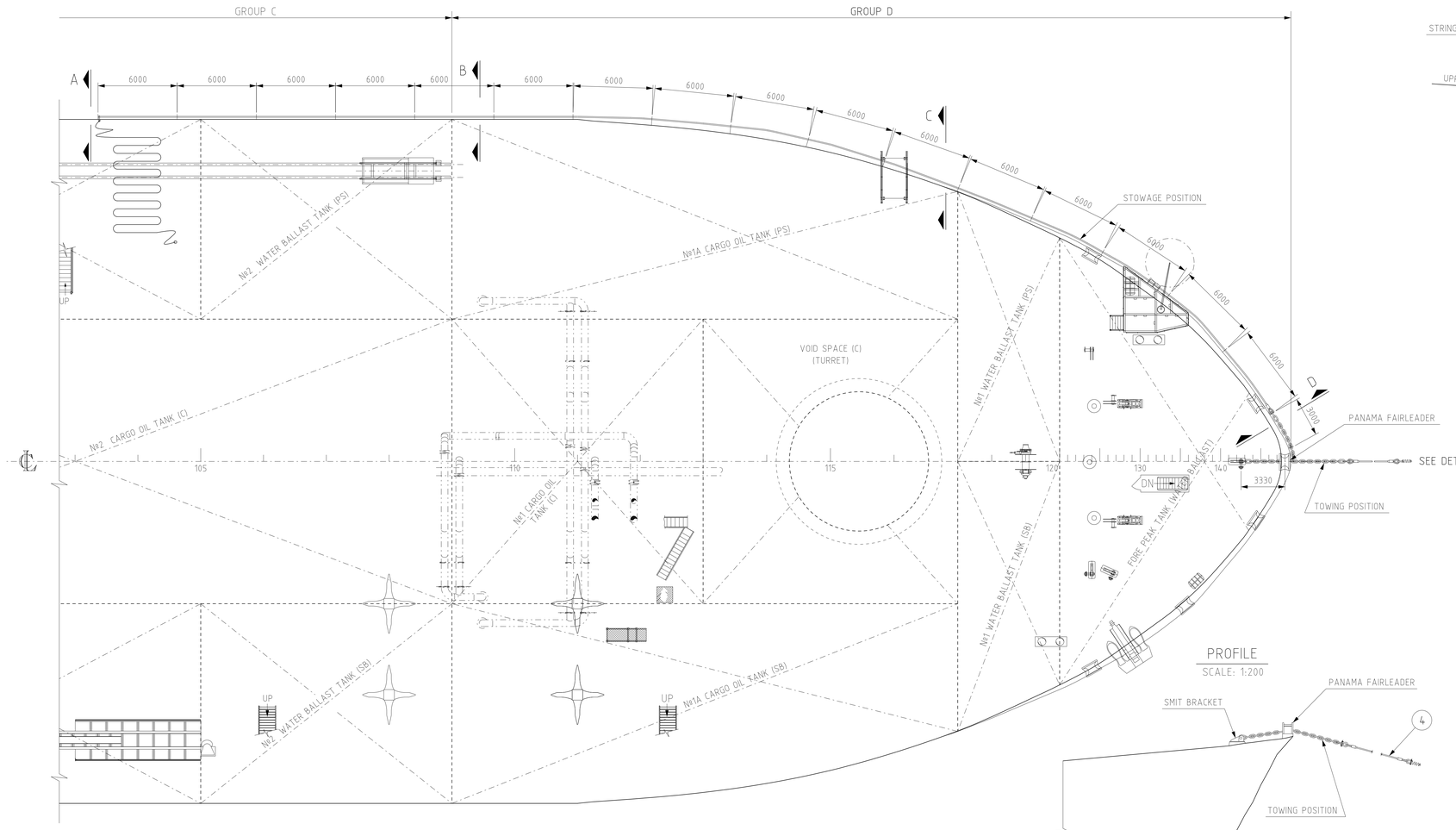
ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP D
EMERGENCY ANCHOR ARRANGEMENT
ARRANJO DE ANCORAGEM DE EMERGÊNCIA

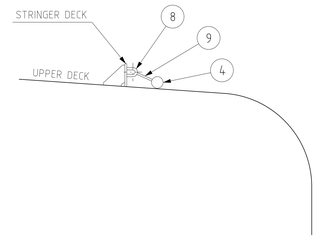
PROJ.	EXEC.	VERIF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS
ESCALA: INDICADA	AS. –	SEP. –	FOLHA 25 de 30
DATA: 12/09/08	Nº DE-3010.56-5430-980-TNA-001		

A1 = 594x841
COPIA NAO CONTROLADA

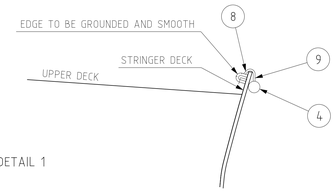
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SCALE 1:200



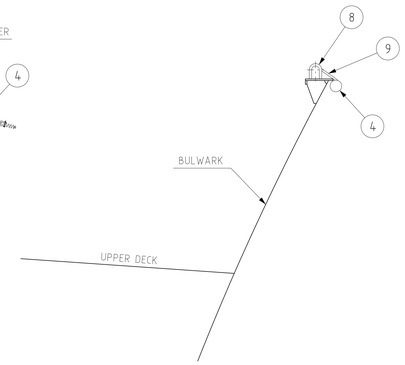
SECTION A
SCALE: 1:20



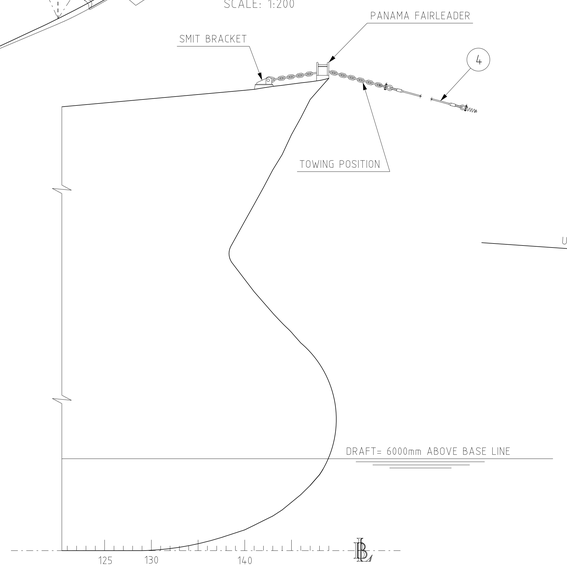
SECTION B
SCALE: 1:20



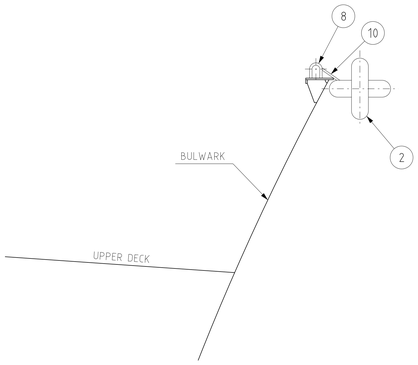
SECTION C
SCALE: 1:20



PROFILE
SCALE: 1:200



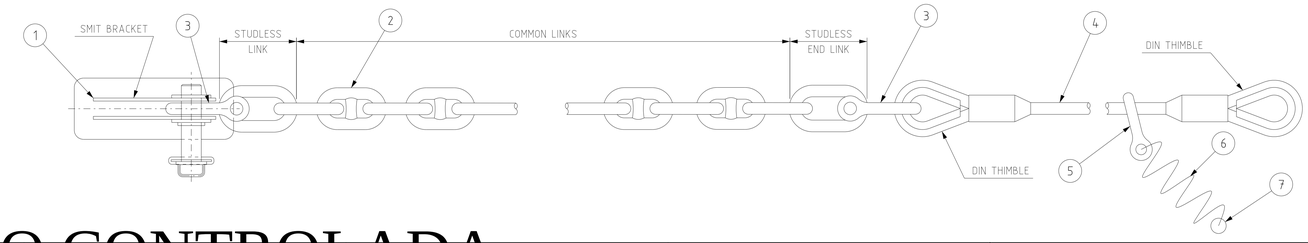
SECTION D
SCALE: 1:20



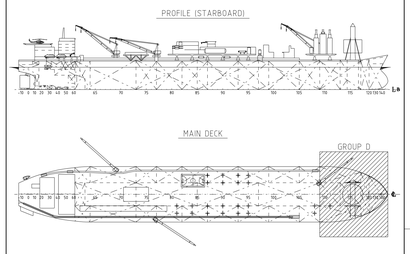
EMERGENCY TOWING LIST						
ITEM	NAME	DESCRIPTION	QTY.	SWL	MBL	NOTE
1	SMIT BRACKET	PL. 25	01	200	400	-
2	CHAFING CHAIN	CHAIN 76mm LENGTH = 8m MATERIAL NVK3-RIG OR SIMILAR (MINIMUM GRADE = 3)	01	235	470	-
3	SHACKLE	SHACKLE 85 Tf SWL CROSBY G-2130 OR SIMILAR MINIMUM WORKING LOAD LIMIT FACTOR = 3.0	02	150	459	-
4	PENNANT WIRE	WIRE 76mm 6x41 IWRC LENGTH = 100m HARD EYES WITH GLOOVES AND THIMBLE BOTH ENDS	01	200	400	-
5	SHACKLE	SHACKLE 55 Tf SWL CROSBY G-2130 OR SIMILAR	01	55	297	-
6	MESSENGER ROPE	POLYPROPILENE ROPE 80mm LENGTH = 100m	01	25	76	-
7	BUDY	BUDY (MINIMUM BUOYANCY = 150Kg)	01	-	-	-
8	PADEYE	PADEYE 1.5 Tn (SEE DETAIL 5)	18	1.5	3	-
9	ROPE	NATURAL FIBER ROPE 18mm LENGTH = 1.5m	16	0.7	2.1	-
10	ROPE	NATURAL FIBER ROPE 18mm LENGTH = 1.5m	02	0.7	2.1	-

MBL= MINIMUM BREAK LOAD
SWL= SAFETY WORK LOAD

DETAIL 1
SCALE: 1:25



PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-421
  FORWARD EMERGENCY TOWING & AFT HOOK-UP ARRANGEMENT

NOTAS GERAIS

LEGENDA

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.
Nº DO CONTRATO: 101.2.013.02-2
RESPONSÁVEL TÉCNICO: CESAR A. BRACET
Nº DO CREA: 83-1-02202-D

PETRÓLEO BRASILEIRO S.A. PETROBRAS
E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

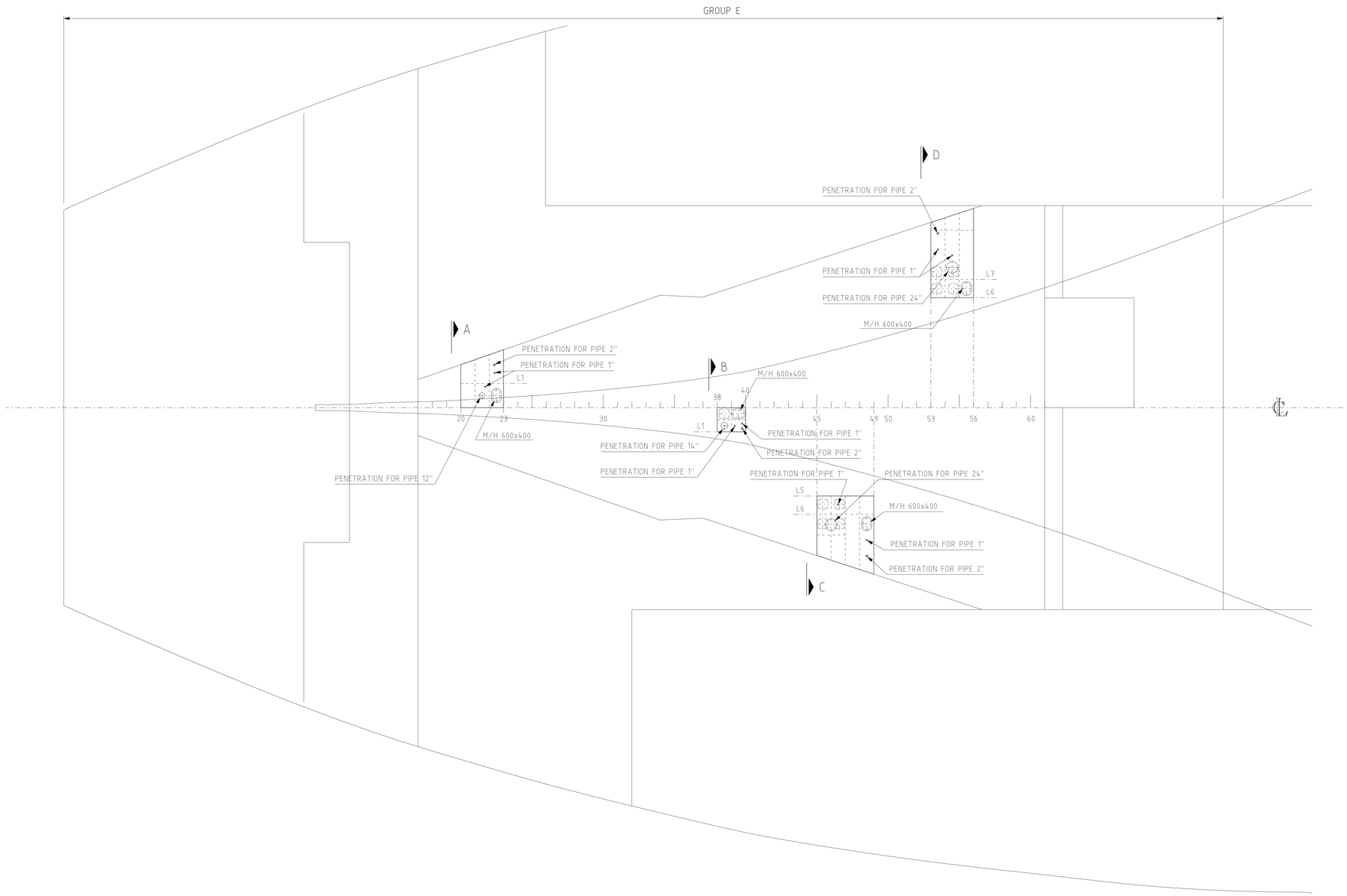
TÍTULO:
KIT SALVAGE GROUP D
FORWARD EMERGENCY TOWING ARRANGEMENT
ARRANJO DE REBOQUE DE EMERGÊNCIA À VANTE

PROJ.	EXEC.	VERF.	APROV.
TECNITAS	JOÁS MARTINS	ROBERTO MARTINS	M. RAMOS
ESCALA: INDICADA	AS. -	SEP. -	FOLHA: 26 de 30
DATA: 12/09/08	Nº DE-3010.56-5430-980-TNA-001		

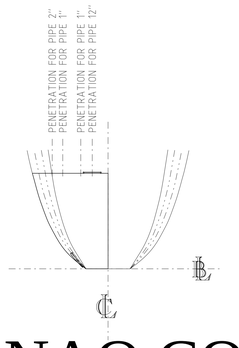
COPIA NAO CONTROLADA

A1 = 594x841

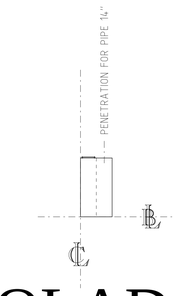
BOTTOM PLAN
SCALE: 1:125



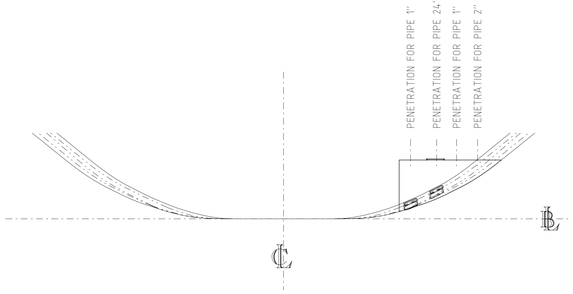
SECTION A – FR. 20 TO 23
SCALE: 1:125



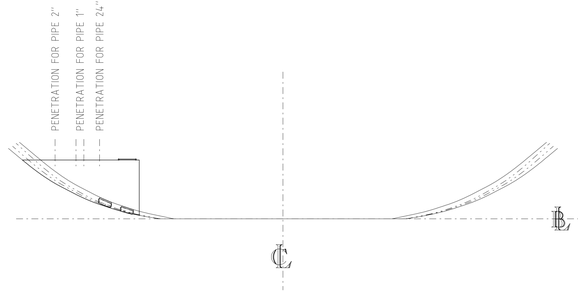
SECTION B – FR. 38 TO 40
SCALE: 1:125



SECTION C – FR. 45 TO 49
SCALE: 1:125

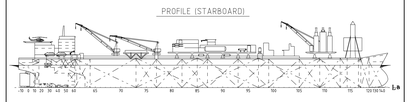


SECTION D – FR. 53 TO 56
SCALE: 1:125



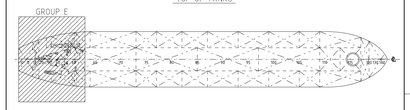
PLANTA CHAVE

PROFILE (STARBOARD)



TOP OF TANKS

GROUP E



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-040
  SEA CHESTS (FR.45 - FR.56)
- DE-3010.56-1200-140-AES-041
  SEA CHESTS (FR.20 - FR.40)
- DE-3010.56-1200-140-AES-042
  ALUMINIUM COVERS DESMOUNTING FOR SEA CHESTS

NOTAS GERAIS

LEGENDA

N SEA CHEST

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.	Nº DO CONTRATO: 101.2.013.02-2
	RESPONSÁVEL TÉCNICO: CESAR A. BRACET
	Nº DO CREA: 83-1-02202-D
PETRÓLEO BRASILEIRO S.A. PETROBRAS	E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP E
SEA CHEST - PLAN AND SECTIONS A, B, C AND D
CAIXA DE MAR - PLANTA E SEÇÕES A, B, C E D

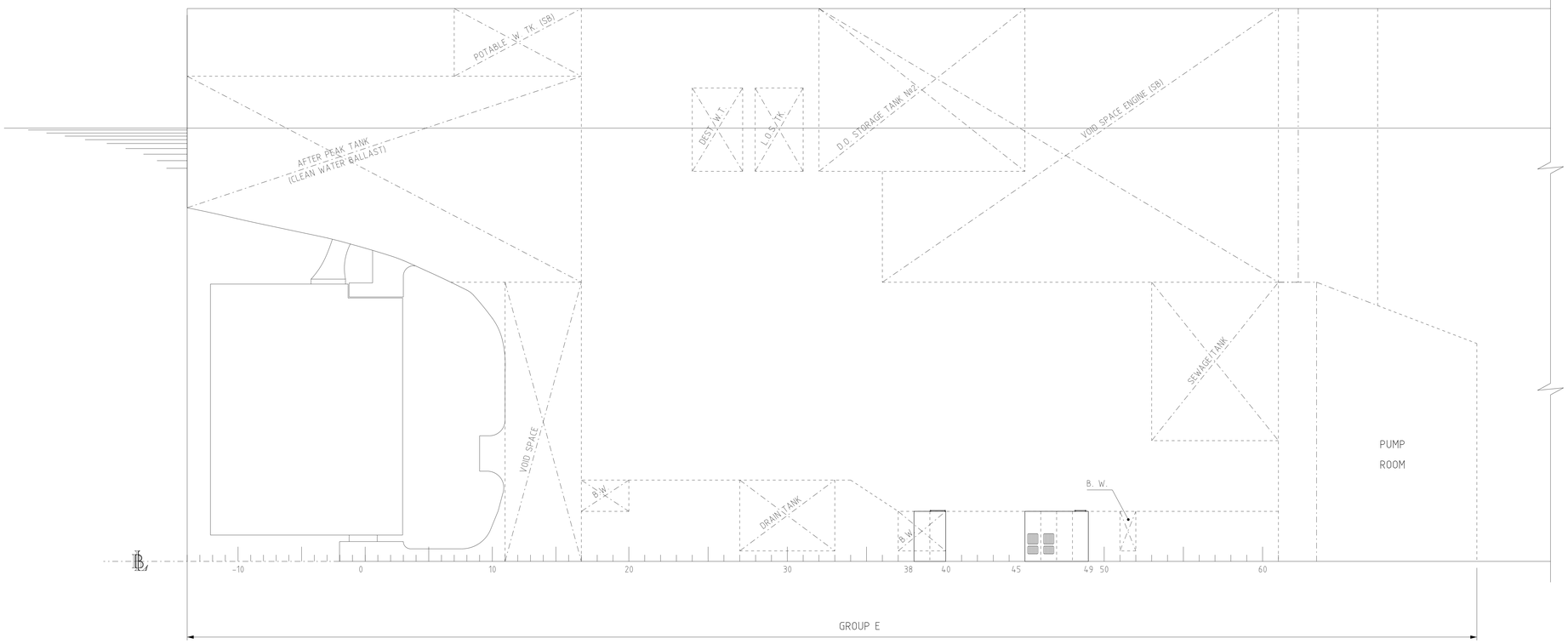
PROJ.: TECNITAS	EXEC.: MAGNO CASTRO	VERIF.: ROBERTO MARTINS	APROV.: M. RAMOS
ESCALA: INDICADA	AS: -	SEP.: -	FOLHA: 27 de 30
DATA: 12/09/08	Nº: DE-3010.56-5430-980-TNA-001		

COPIA NAO CONTROLADA

A1 = 594x841

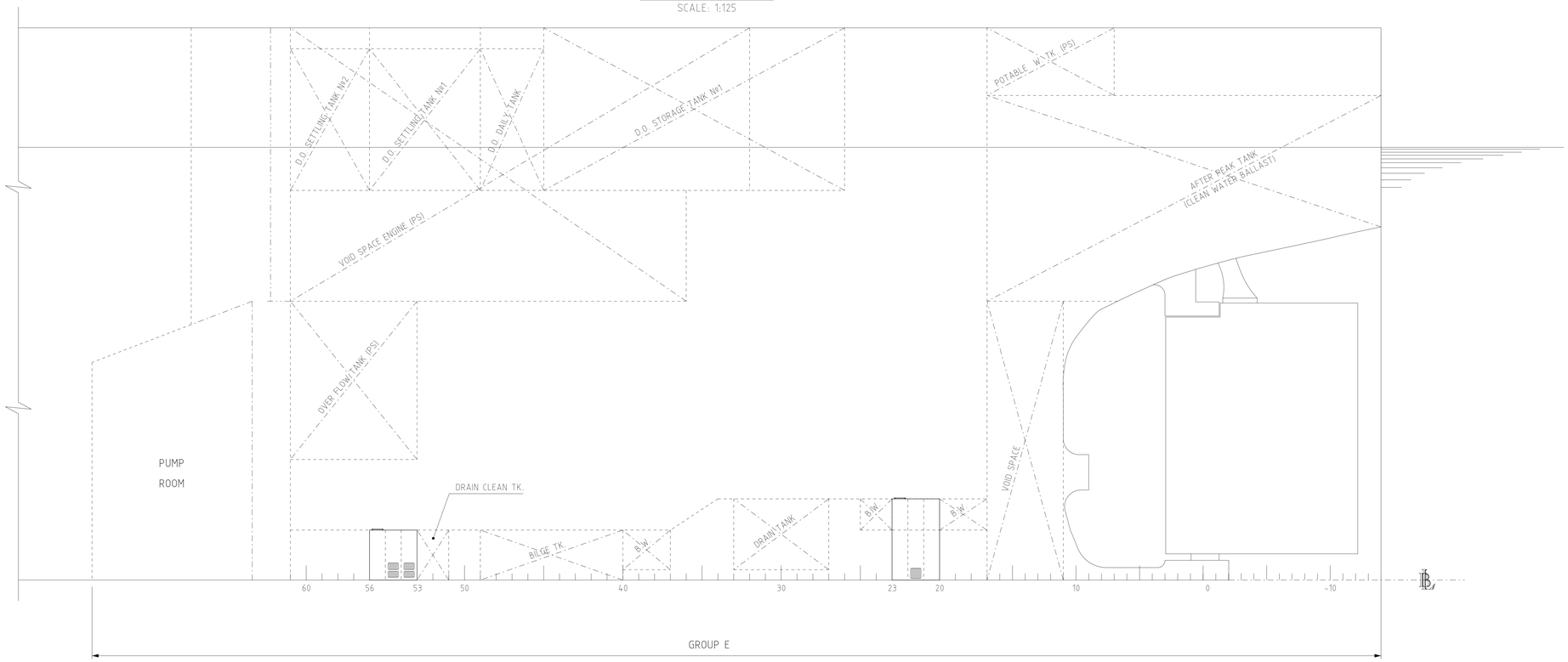
PROFILE (STARBOARD)

SCALE: 1:125

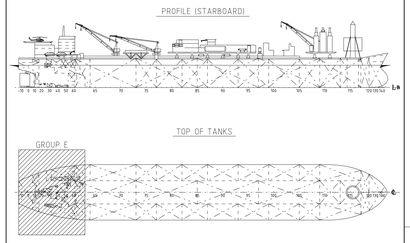


PROFILE (PORTSIDE)

SCALE: 1:125



PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-040
  SEA CHESTS (FR.45 - FR.56)
- DE-3010.56-1200-140-AES-041
  SEA CHESTS (FR.20 - FR.40)
- DE-3010.56-1200-140-AES-042
  ALUMINIUM COVERS DESMOUNTING FOR SEA CHESTS

NOTAS GERAIS

LEGENDA

N SEA CHEST

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.	Nº DO CONTRATO: 101.2.013.02-2
	RESPONSÁVEL TÉCNICO: CESAR A. BRACET
	Nº DO CREA: 83-1-02202-D
PETRÓLEO BRASILEIRO S.A. PETROBRAS	E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

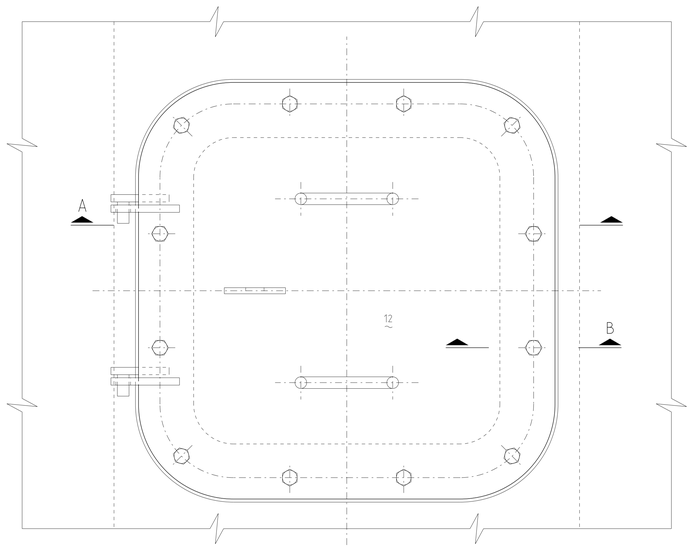
TÍTULO: KIT SALVAGE GROUP E
SEA CHEST - PROFILE (SB) AND (PS)
CAIXA DE MAR - PERFIL (BE) E (BB)

PROJ.	TECNITAS	EXEC.	MAGNO CASTRO	VERIF.	ROBERTO MARTINS	APROV.	M. RAMOS
ESCALA	INDICADA	AS.	-	SEP.	-	FOLHA	28 de 30
DATA	12/09/08	Nº	DE-3010.56-5430-980-TNA-001				

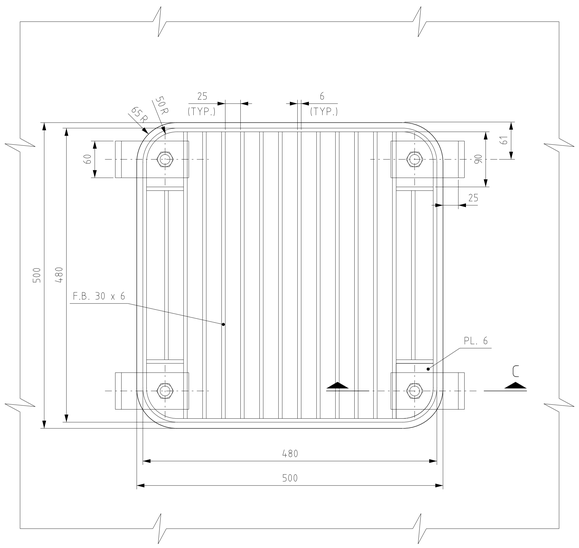
COPIA NAO CONTROLADA

A1 = 594x841

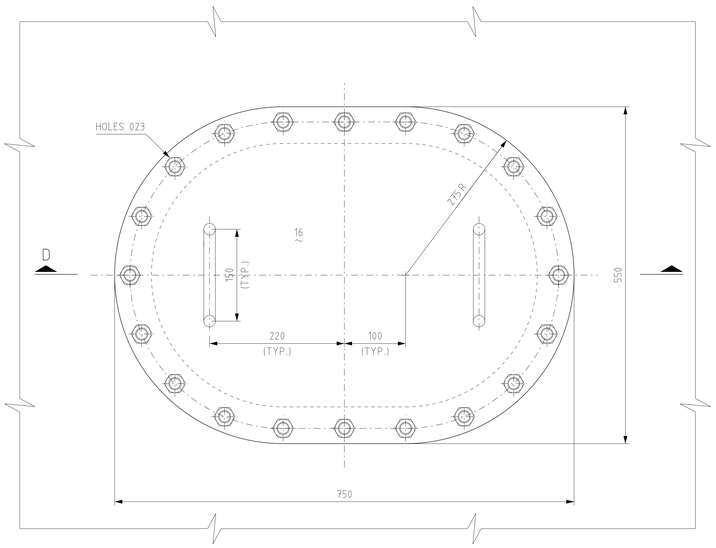
COVER (SEA CHEST)
SCALE: 1:5



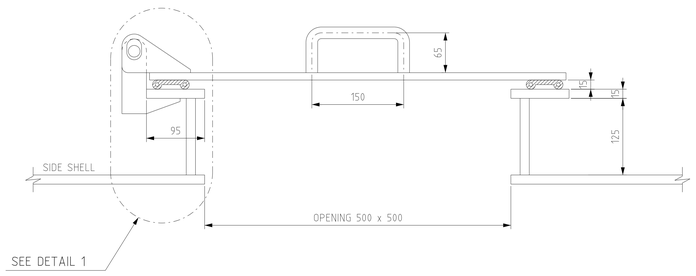
GRILLES (SEA CHEST)
SCALE: 1:5



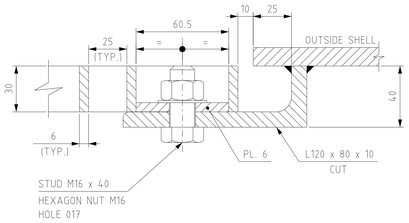
MANHOLE COVER (SEA CHEST)
SCALE: 1:5



SECTION A
SCALE: 1:5



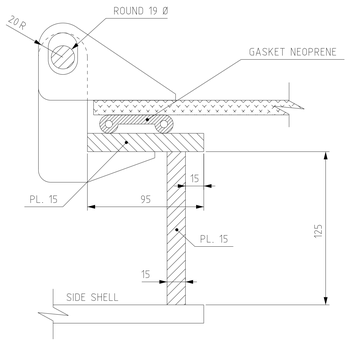
SECTION C
SCALE: 1:2



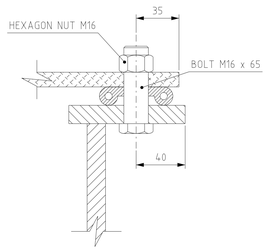
SECTION D
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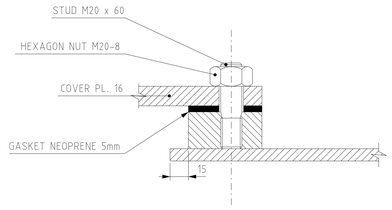
DETAIL 1
SCALE: 1:2.5



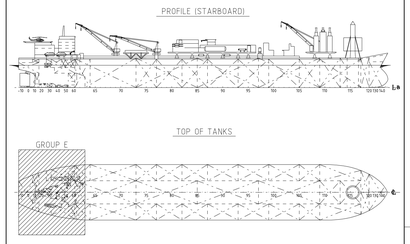
SECTION B
SCALE: 1:2.5



DETAIL 2
SCALE: 1:2.5



PLANTA CHAVE



DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- DE-3010.56-1200-140-AES-040
  SEA CHESTS (FR.45 - FR.56)
- DE-3010.56-1200-140-AES-041
  SEA CHESTS (FR.20 - FR.40)
- DE-3010.56-1200-140-AES-042
  ALUMINIUM COVERS DESMOUNTING FOR SEA CHESTS

NOTAS GERAIS

LEGENDA

N SEA CHEST

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.	Nº DO CONTRATO: 101.2.013.02-2
	RESPONSÁVEL TÉCNICO: CESAR A. BRACET
	Nº DO CREA: 83-1-02202-D
PETRÓLEO BRASILEIRO S.A. PETROBRAS	E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

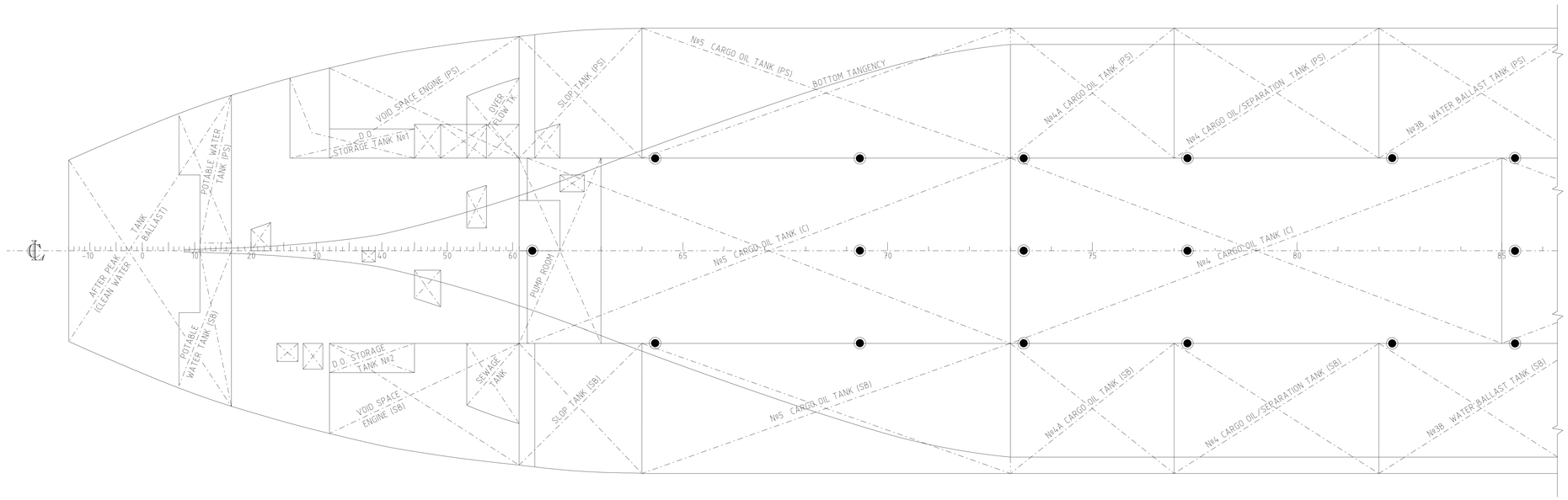
TÍTULO: KIT SALVAGE GROUP E
SEA CHEST - CONTRUCTIVE STANDARD
CAIXA DE MAR - PADRÃO CONSTRUTIVO

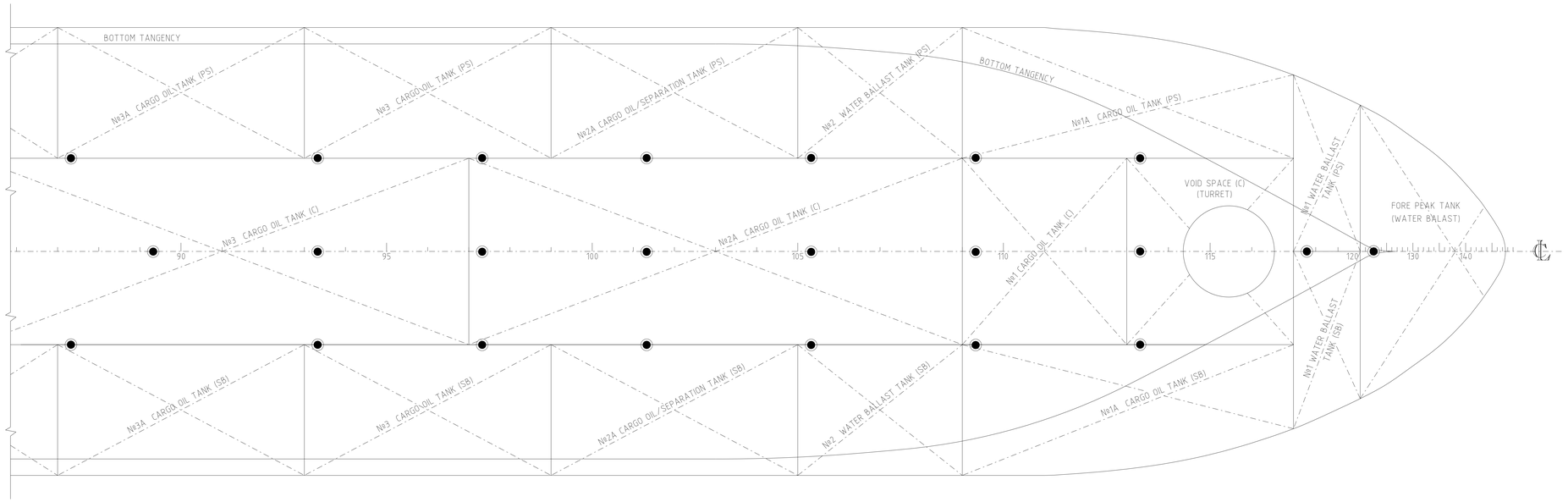
PROJ.	TECNITAS	EXEC.	FLÁVIO FIGUEIREDO	VERIF.	ROBERTO MARTINS
ESCALA	INDICADA	AS.	-	SEP.	-
DATA	12/09/08	Nº	DE-3010.56-5430-980-TNA-001	APROV.	M. RAMOS
				FOLHA	29 de 30

COPIA NAO CONTROLADA

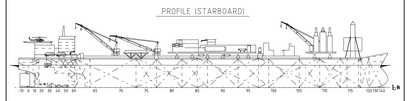
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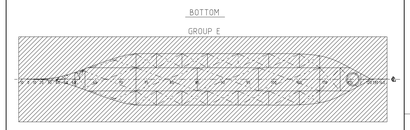
BOTTOM
SCALE 1:300





PLANTA CHAVE





DOCUMENTOS DE REFERÊNCIA

- I-DE-3010.56-9310-942-XJM-301
  GENERAL ARRANGEMENT
- I-DE-3010.56-9310-942-XJM-200
  DOCKING PLAN.

NOTAS GERAIS

LEGENDA

BOTTOM PADEYES

AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DA PETROBRAS, SENDO PROIBIDA A UTILIZAÇÃO FORA DA SUA FINALIDADE.
FORMULÁRIO PERTENCENTE A NORMA PETROBRAS N-381 REV. F ANEXO A - FOLHA 08/08.

TECNITAS DO BRASIL LTDA.	Nº DO CONTRATO: 101.2.013.02-2
	RESPONSÁVEL TÉCNICO: CESAR A. BRACET
	Nº DO CREA: 83-1-02202-D
PETRÓLEO BRASILEIRO S.A. PETROBRAS	E&P UN-BC/ST/EIS

CLIENTE: UN-BC/ATP-MRL/OP-P32-P47

PROGRAMA: GERENCIAMENTO INTEGRADO DE ENGENHARIA NAVAL (GIEN)

ÁREA: PETROBRAS 47

TÍTULO: KIT SALVAGE GROUP E
BOTTOM PLUGS ARRANGEMENT
ARRANJO DE BUJÕES NO FUNDO

PROJ.	TECNITAS	EXEC.	FLÁVIO FIGUEIREDO	APROV.	M. RAMOS
ESCALA	INDICADA	AS.	-	SEP.	-
DATA	12/09/08	Nº	DE-3010.56-5430-980-TNA-001	FOLHA	30 de 30

COPIA NAO CONTROLADA

A1 = 594x841