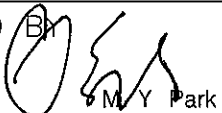
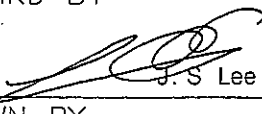
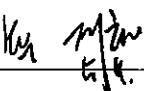





| 图纸 分发 | | | |
|--------------------------|-------------------------------|-----|----|
| 分发处 | | 分发数 | |
| 汉 字 | ENGLISH | FW | FC |
| 基本设计 | Basic Design Team | | |
| 构造设计 | Hull Structure Design Team | 1 | 1 |
| 船体设计 | Hull Design Team | | |
| 船装设计 | Hull Outfitting Design | | |
| 船室设计 | Accommodation Design | | |
| 机装设计(详细) | Machinery Design (Detail) | 1 | 1 |
| 机装设计(生产) | Machinery Design (Production) | 1 | 1 |
| 电装设计 | Electrical Design | 1 | 1 |
| 先行舾装 | Preoutfitting Division | | 2 |
| 机械舾装 | Machinery Outfitting | | 2 |
| 船室生产 | Accommodation Production | | |
| 试航部 | Trial Cruise Division | | |
| 管件器材采购 | Pipe M. Procurement Team | | 1 |
| 舾装品质管理 | Outfitting Quality MGT. Team | | 2 |
| 搭载运营 | Erection Operation Team | | |
| 电装team | Electrical Outfitting Team | | |
| 品质物流(镇海) | Logistics Team (Jinhae) | | |
| 机装设计(轴舵) | Machinery Design (S&R) | 1 | 1 |
| 合 计 (Total) | | 5 | 12 |
| <input type="checkbox"/> | For Working | | |
| <input type="checkbox"/> | For Construction | | |
| <input type="checkbox"/> | For Revision | | |

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| | | | |
|---|--|---|---|
| HULL NO. 1009~1012 1031~1032 | | PROJECT TPC KOREA 33,5K DWT LOG / BULK CARRIER | |
| APPD BY  J. H. Park | | TITLE SHAFT WITHDRAWAL PLAN | |
| CHKD BY  J. S. Lee | | | |
| DWN BY  J. H. Park (Ext. : 0133) | | | |
|  Samjin Shipbuilding Industries Co., Ltd. | | TEL +86> 0631-538-0204 | TOTAL 11 SHEET(S) WITH COVER |
| | | DEPT MACHINERY OUTFITTING DESIGN TEAM | DWG NO. DA500M105 DATE OCT. 31. 2008 SCALE EACH REV. NO. 1 |



Samjin Shipbuilding
Industries Co., Ltd.

PLAN HISTORY

DWG NO

DA500M105

SHEET

2/12

DATE

REV.
NO.

D E S C R I P T I O N

DWN

CHKD

APPD

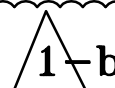
| | | | | | |
|-------------|---|---|----------|--|--|
| OCT.31,2008 | A | SUBMITTED TO OWNER FOR APPROVAL. | J.H PARK | | |
| | | ISSUED FOR WORKING. | J.H PARK | | |
| NOV.06,2008 | B | FOR PRODUCTION STANDARD, WE MODIFY 300x150x12/24 INTO 300x150x10/18.5 | J.H PARK | | |
| | | ISSUED FOR REVISION. | J.H PARK | | |
| NOV.07,2008 | B | APPROVED BY OWNER WITHOUT COMMENT. | J.H PARK | | |
| NOV.10,2008 | 0 | ISSUED FOR CONSTRUCTION. | J.H PARK | | |
| MAY.06,2009 | 1 | a) ACCORDING TO CHANGED POSITION OF HULL OPENING MODIFIED FUNCTION AND NUMBER OF EYE PLATE. | J.H PARK | | |
| | | b) ACCORDING TO CHANGED POSITION OF HULL OPENING MODIFIED WORKING PROCEDURE ON 3/11 PAGE. | J.H PARK | | |
| | | c) CHANGED FOR WOODEN BLOCK HEIGHT 280mm TO 310mm ON 6/11 PAGE. | J.H PARK | | |
| | | d) CHANGED FOR POSITION & SIZE OF HULL OPENING FR.12-FR.14 TO FR.13-FR.15 ON 5/11 PAGE. | J.H PARK | | |
| | | e) CHANGED FOR CAPACITY OF GEARED TROLLEY 8 TON TO 10 TON ON 4/11 PAGE. | J.H PARK | | |
| | | SUBMITTED TO OWNER FOR RE-APPROVAL. | J.H PARK | | |
| MAY.06,2009 | | ISSUED FOR REVISION. | J.H PARK | | |
| MAY.21,2009 | 1 | APPROVED BY OWNER WITHOUT COMMENT. | J.H PARK | | |

PROCEDURE

GENERAL

1. WEIGHT & LENGTH OF SHAFT ; -. PROPELLER SHAFT ; abt. 7,838Kg x 6,225mm
-. INTERMEDIATE SHAFT ; abt. 7,478Kg x 7,000mm
2. TROLLEY BLOCK ; GEARED TROLLEY CAPACITY ; 10 TON x 2 SETS
3. I-BEAM ; 300x150x10/18.5
4. INTER. SHAFT BEARING WEIGHT ; abt. 645Kg
5. REFERENCE DRAWING ; -. SHAFING ARRANGEMENT(DRAWING NO. DA500M104)
-. DOUBLE BOTTOM IN E/R(DRAWING NO. DA130H100)
-. E/ROOM CONST.(DRAWING NO. DA130H200)

WORKING PROCEDURE



1. PREVIOUS WORK (预先工作)

- 1) SIDE SHELL OPENING TO BE DONE AS SHOWN ON DRAWING.(PAGE 5/11)
(舷侧外板开口按照图纸所示制作. (5/11))
- 2) THE PIPES AND GRATING OVER AND UNDER INTERMEDIATE SHAFT TO BE REMOVED.
(移走中间轴上方和下方的管子和格子板.)
- 3) THE SHAFT GROUNDING DEVICE TO BE TAKEN OUT.
(移走轴接地装置.)
- 4) PUT DOWN THE WOODEN BLOCKS ON THE TANK TOP.
(舱顶放下木托块.)
- 5) DISMANTLE THE PROPELLER AND ITS NUT.
(拆除螺旋桨和它的螺母.)

2. REMOVAL OF INTERMEDIATE SHAFT (移动中间轴)

- 1) REMOVE THE UPPER BLOCK OF INTERMEDIATE SHAFT BEARING USING ONE SET GEARED TROLLEY WITH CHAIN BLOCK AND EYE PLATES ① ②.
(利用一套带有滑轮链的齿轮拖吊车和眼板 ① ② 移走中间轴承的上部分.)
- 2) DISMANTLE COUPLING BOLTS AND NUTS OF INTERMED.SHAFT AND PROP.SHAFT FLANGE.
(拆除中间轴和螺旋桨轴法兰的连接螺栓和螺母.)
- 3) LIFT UP THE INTERMEDIATE SHAFT TO 3,500 A/B USING TWO SETS OF GEARED TROLLEY WITH CHAIN BLOCKS.
(利用两套带滑轮链的齿轮拖吊车将中间轴提升到基线以上3,500.)
- 4) REMOVE THE LOWER BLOCK OF INTER.SHAFT BEARING USING THE EYE PLATES ① ②.
(利用眼板 ① ② 移走中间轴承的下部分.)

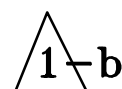
PROCEDURE

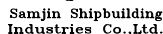
3. WITHDRAWAL OF PROPELLER SHAFT (拆除螺旋桨轴.)

- 1) TAKEN OUT THE AFTER AND FORWARD S/T SEAL BLOCKS AFTER THE OIL IN STERN TUBE IS DRAINED.
(将尾轴管内的油排出后取出后面和前面的尾轴密封块.)
- 2) PULL OUT THE PROPELLER SHAFT FROM POSITION (A) TO POSITION (B) USING TWO SETS OF GEARED TROLLEY WITH CHAIN BLOCK AND EYE PLATES (3) (4).
(利用两套带有滑轮链的齿轮拖吊车和眼板 (3) (4) 将螺旋桨轴从位置 (A) 拉动到位置 (B).)
- 3) LIFT UP THE PROPELLER SHAFT UP TO 3,900 A/B LINE USING TWO SETS OF GEARED TROLLEY WITH CHAIN BLOCKS.
(利用两套带有滑轮链的齿轮拖吊车将螺旋桨轴提升到基线以上3,900.)
- 4) THE PROPELLER SHAFT LIFT UP TO 4,580 A/B LINE AND TRANSFER FROM POSITION (A) (B) TO (C) (D) USING EYE PLATES (5) (6).
(将螺旋桨轴提升到基线以上4,500 并利用眼板 (5) (6) 将螺旋桨轴从 (A) (B) 位置移动到 (C) (D) 位置.)
- 5) TRANSFER THE PROPELLER SHAFT FROM POSITION (C) (D) TO POSITION (E) USING EYE PLATES (1) (5) (6).
(利用眼板 (1) (5) (6) 将螺旋桨轴从 (C) (D) 位置移动到 (E) 位置.)
- 6) TAKEN OUT THE PROPELLER SHAFT FROM POSITION (D) TO OUTBOARD USING EYE PLATES (6) AND SHORE CRANE.
(利用眼板吊耳 (6) 和岸上起重机将螺旋桨轴从 (D) 位置抽出到船外.)

4. INSERTION OF PROPELLER SHAFT (插入螺旋桨轴.)

- 1) INSERT THE PROPELLER SHAFT BY REVERSE METHOD OF THE WITHDRAWAL.
(利用与拆除螺旋桨轴相反的方法插入螺旋桨轴.)
- 2) THEN PUSH INTO THE STERN TUBE USING EYE PLATES (3).
(然后利用眼板 (3) 将尾轴管推进去.)





5/12

MATERIAL LIST

[illegible]



Samjin Shipbuilding
Industries Co., Ltd.

DWG NO

DA500M105

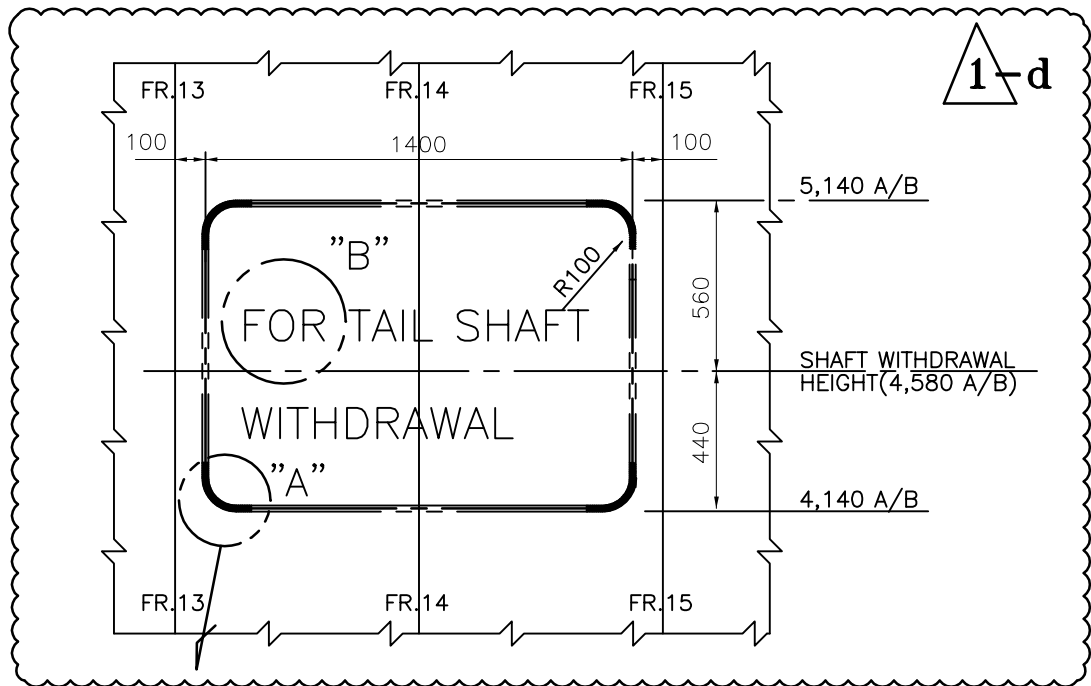
SCALE

1/25

SHEET NO

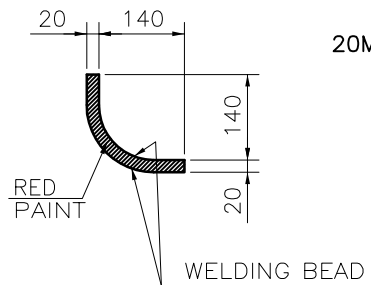
6/12

DETAIL DRAWING OF HULL OPENING



DETAIL "A"

(4 POINTS)



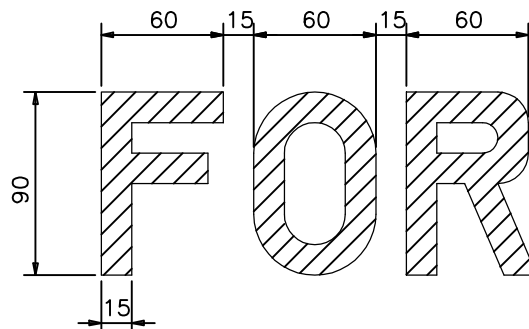
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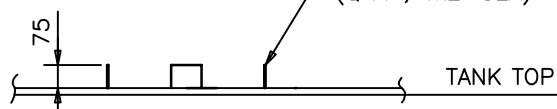
(PORT SIDE ONLY)

20MM THICK RED PAINT ON IN-BOARD SIDE

DETAIL "B"

(FOR RED PAINTING)



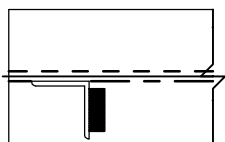


BEAM STOPPER DETAIL

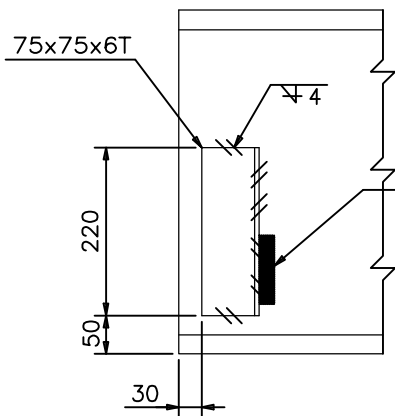
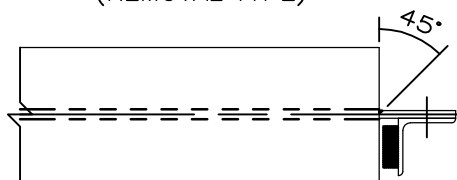
STOPPER FOR LIFTING BEAM

- *.LIFTING BEAM STOPPER TO BE FITTED
AT THE EDGES OF LIFTING BEAM.
- .AFT EDGE IS AS FIXED TYPE.
- .FWD EDGE IS AS REMOVAL TYPE.

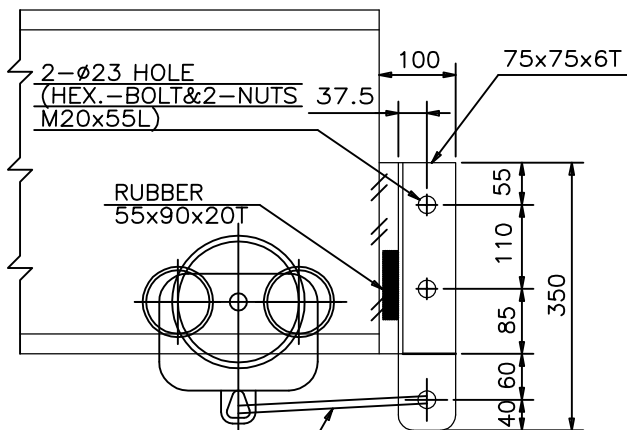
AFT EDGE
(FIXED TYPE)



FWD EDGE
(REMOVAL TYPE)



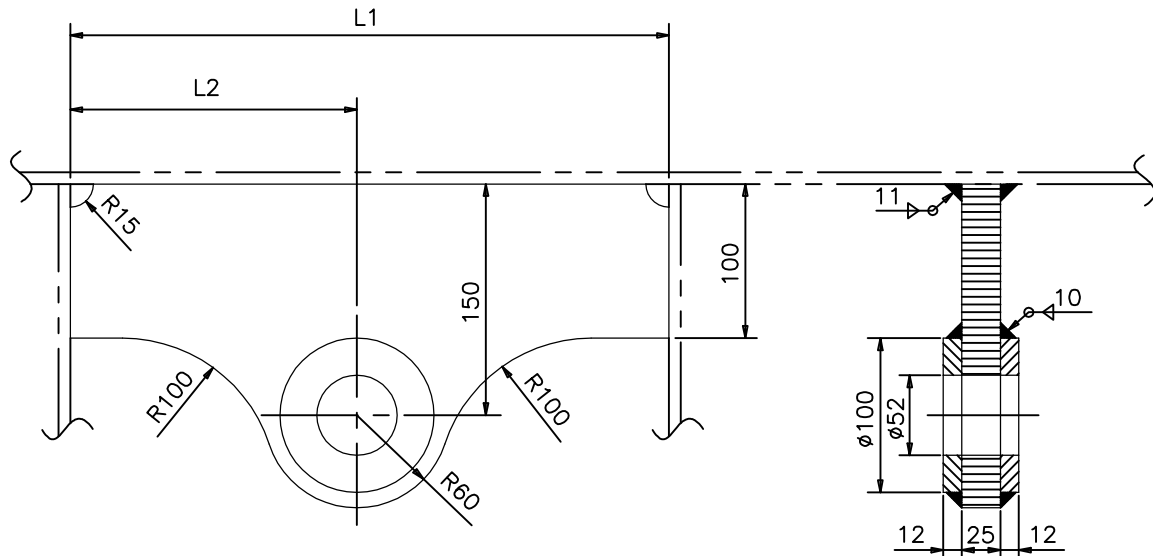
RUBBER
55x90x20T



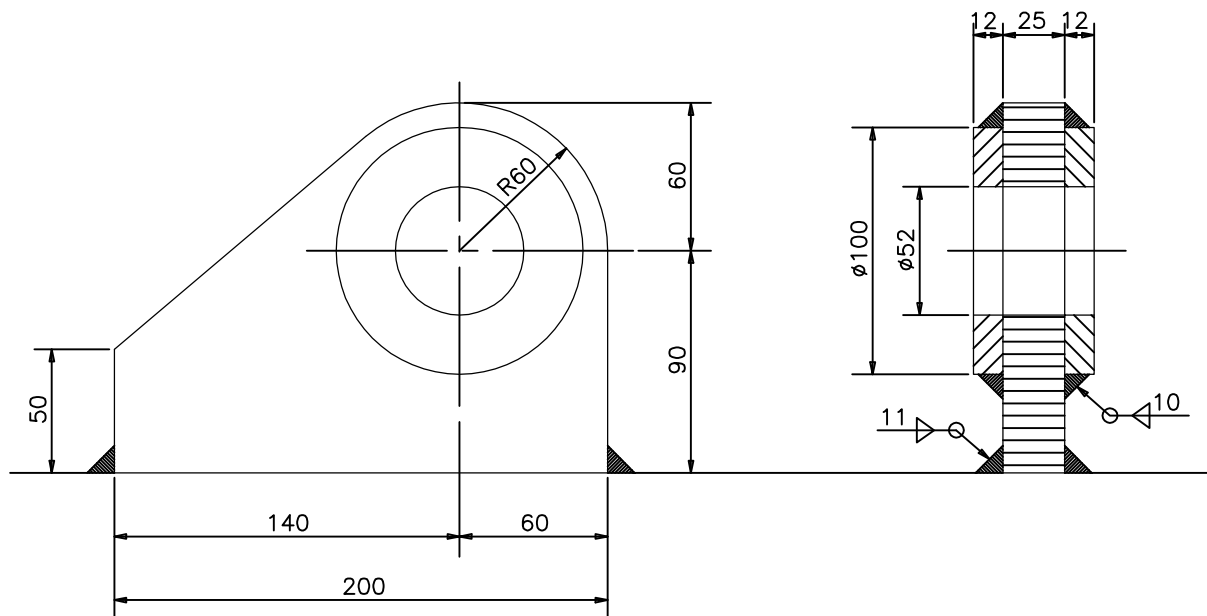
LOCKING DEVICE
(TROLLEY MAKER SUPPLY)

EYE PLATE FOR LIFTING LUG

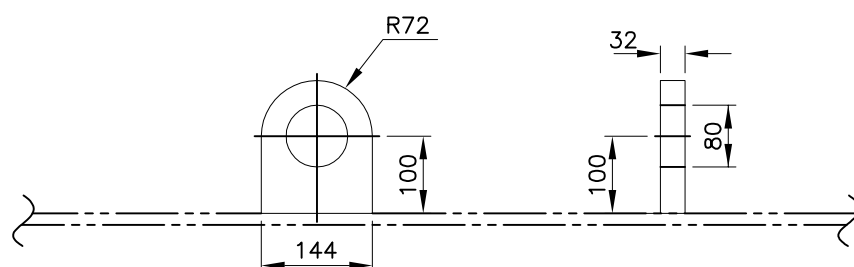
C-TYPE (10TON)



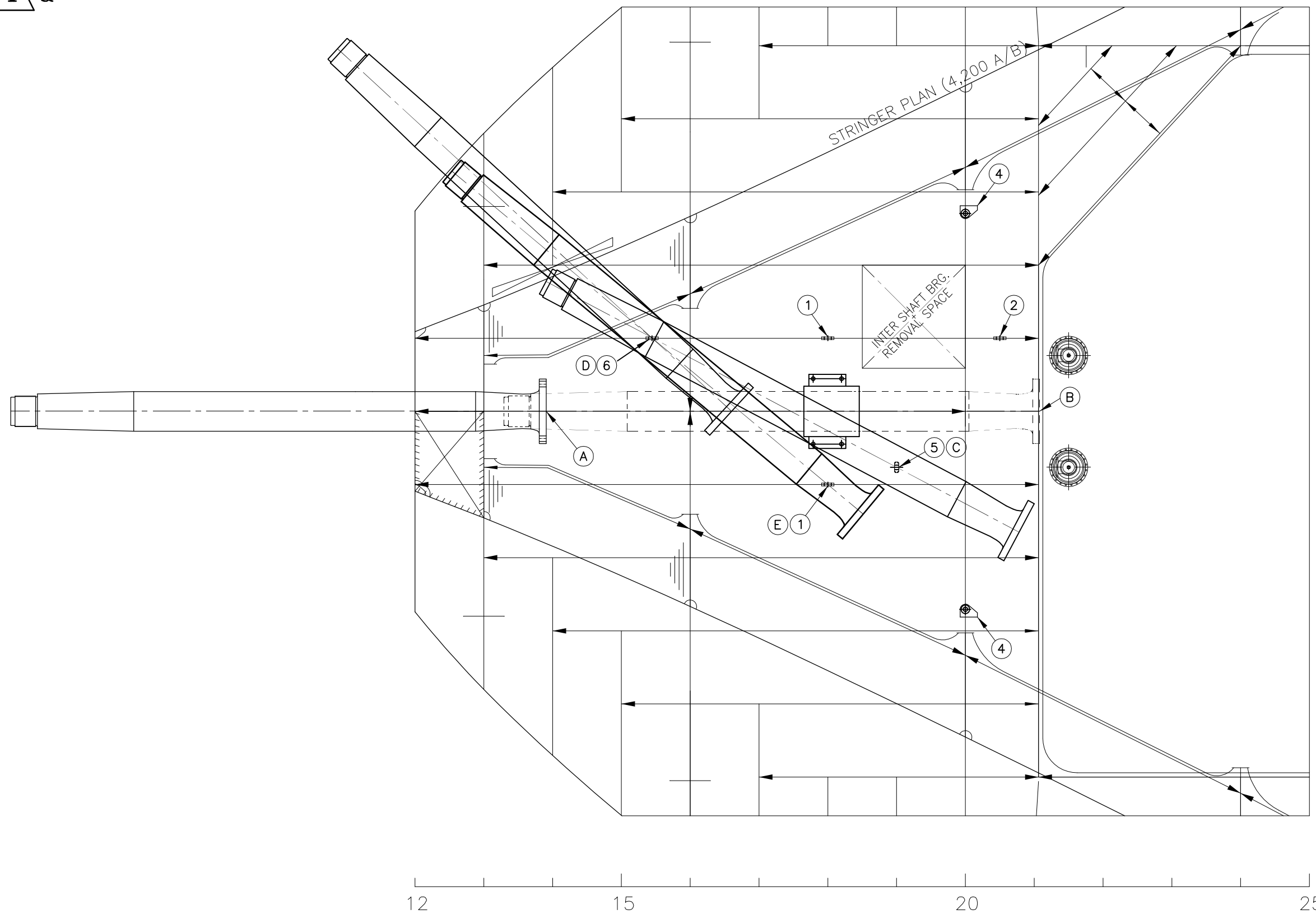
D-TYPE (10TON)



S-TYPE (5TON)



1-a



Samjin Shipbuilding
Industries Co., Ltd.

DWG NO

DA500M105

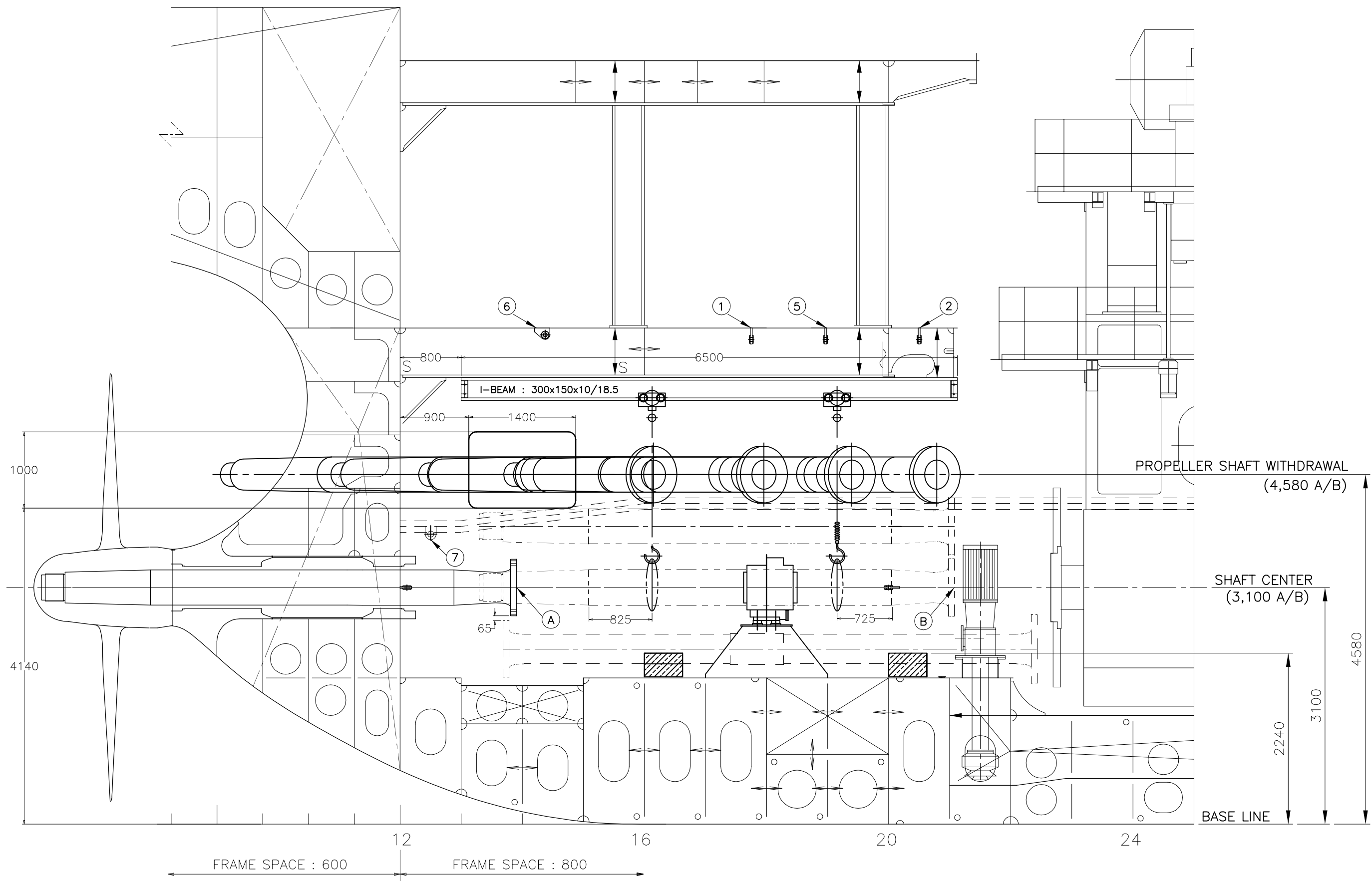
SCALE


1/50

SHEET NO

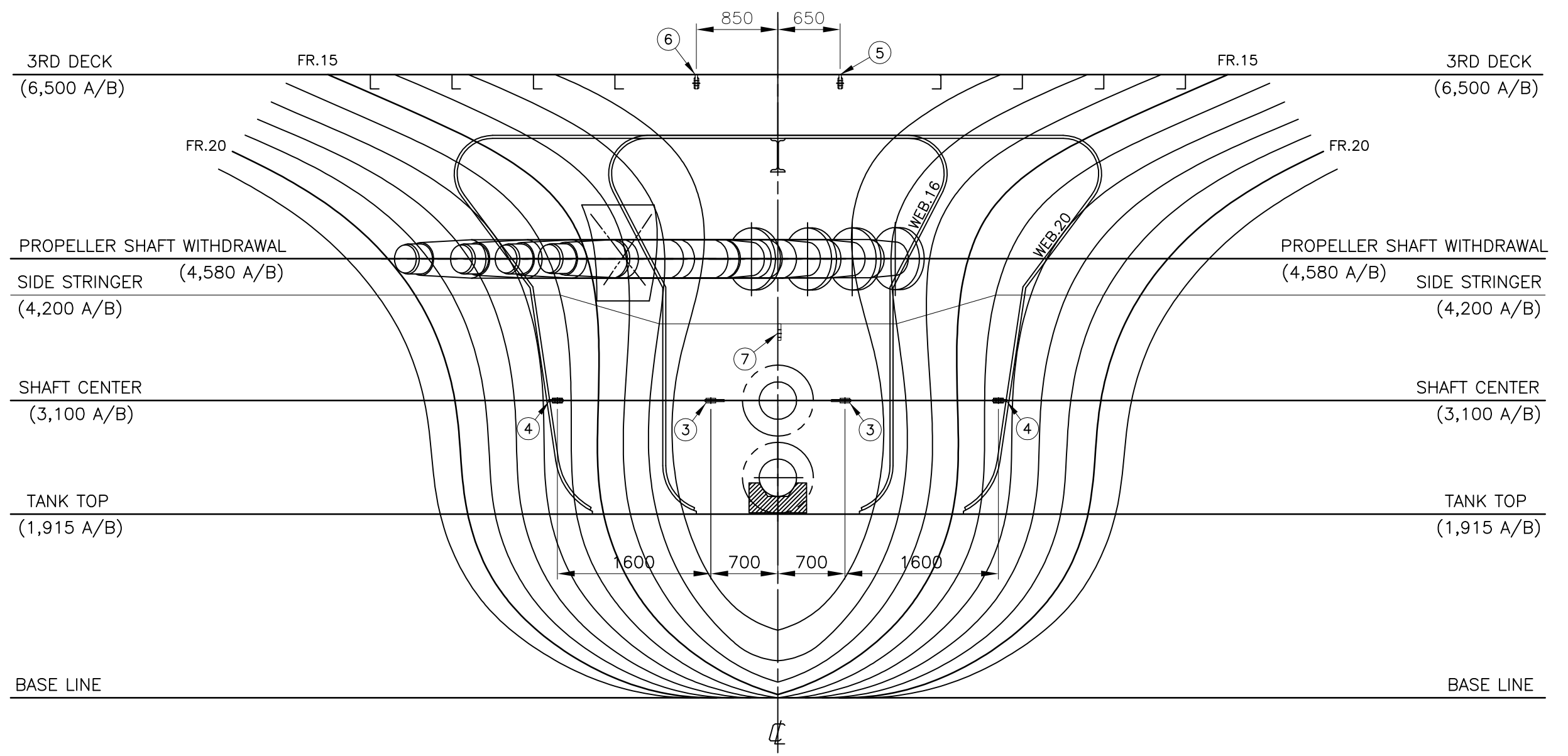
10/12

3RD DECK PLAN (6,500A/B)



| | | | | | | |
|---|-----------|-----------|-------|------|----------|-------|
|  Samjin Shipbuilding Industries Co.,Ltd. | DWG NO | DA500M105 | SCALE | 1/50 | SHEET NO | 11/12 |
| | ELEVATION | | | | | |

1-a



| | | | | | |
|--------|-----------|-------|------|----------|-------|
| DWG NO | DA500M105 | SCALE | 1/50 | SHEET NO | 12/12 |
|--------|-----------|-------|------|----------|-------|

SECTION