



# খুলনা শিপইয়ার্ড লিমিটেড

## বাংলাদেশ নৌ বাহিনী

Website: [www.khulnashipyard.gov.bd](http://www.khulnashipyard.gov.bd), Email: [oiocoml.ksy@gmail.com](mailto:oiocoml.ksy@gmail.com)

টেন্ডার নং : বাবি-২৯/১৮৯/২৫-২৬  
তারিখ : ০৫-১০-২৫  
খোলার তারিখ : ১২-১০-২৫  
বেলা : ১১-৩০ ঘটিকা

প্রিয় মহোদয়গণ,

খুশিলিতে নির্মাণাধীন ০৪টি ফ্রেনবোটের ওয়েল্ডিং স্থানে সাবকন্ট্রাক্ট ভিত্তিতে NDT করণ প্রসংগে (জব নং- নগনিঃ ৭৯০, ৭৯১, ৭৯৪, ৭৯৫)।

ক। বিষয়োক্ত কাজের জন্য আপনাদের প্রতিষ্ঠানের নিকট হতে দরপত্র আহবান করা যাচ্ছে। উক্ত দরপত্র ডাকযোগে/সরাসরি/ সীলমোহরকৃত বন্ধ খামে অথবা ই-মেইল যোগে ([oiocoml.ksy@gmail.com](mailto:oiocoml.ksy@gmail.com)) নির্ধারিত সময়ের মধ্যে (সকাল ১১.১৫ মিঃ) খুশিলির প্রধান গেটে রক্ষিত টেন্ডার বক্সে ফেলতে হবে অথবা প্রেরণ করতে হবে। উক্ত দিন সকাল ১১.৩০ ঘটিকায় উপস্থিত দরদাতাদের সম্মুখে দরপত্র সমূহ খোলা হবে। মূল্য তালিকা অবশ্যই নিম্নে বর্ণিত শর্তাবলী অনুযায়ী হতে হবে।

খ। কাজের বিবরণঃ বিআইডব্লিউটিএ'র জন্য খুশিলিতে নির্মাণাধীন ০৪টি ফ্রেনবোটের নির্মাণ কাজ চলমান রয়েছে। বর্ণিত ০৪টি ফ্রেনবোটের জন্য ক্লাসিফিকেশন সোসাইটির রুলস ও এ্যাটেন্ডিং সার্ভেয়ারের মতামতের আলোকে প্রস্তুতকৃত NDT Plan (সংযুক্ত) অনুযায়ী নিম্নবর্ণিত স্থানে RT, UT, MPT এবং DPT সম্পন্ন করতে হবেঃ

### কাজের বিবরণ ও দরঃ

SL No.	Description of Test	Quantity	Unit Price	Total Price
1.	Radiographic Testing (X-Ray)	48 Meter (160 spot)	Per meter tk:	Tk.
2.	Ultrasonic Testing (C-SCAN)	4 Meter (8 spot)	Per meter tk:	Tk.
3.	Magnetic Particle Test (MPT)	28 Spot	Per spot tk:	Tk.
4.	Dye Penetration Test (DPT)	76 Spot	Per spot tk:	Tk.
5.	Mobilization-Demobilization Charge	..... No. (At least)	Per No tk:	Tk.
Total Price				Tk.

### গ। Criteria for NDT Sub-Contractors (Evidence to be submitted during tender stage):

- Recognized Quality management system certification of the NDE company.
- Company brochure including various license to operate from Govt.
- Certificate of NDE Operator both Level II & III.
- NDE procedure approved by Level III reviewed by LR as per LR requirement and LR acceptance criteria.
- Calibration certificate of all measuring and testing Instrument.
- NDE Report format need to be in line with LR recommendation (format to be approved).
- Correct IQI wire to be seen on the film (IQI to be selected based on parent metal thickness).
- Placing of IQI must be in Source Side & only WIRE type IQI is accepted.
- Sensitivity (Less than equal 2%).
- Film Density (min. 2; max. 4).
- Report and film for repair shot (max 2 repair, repair shot to be marked R1/R2 etc. on the film).
- Geometric Un-sharpness ( $Ug=fd/D$ , should be as low as possible).

m) Information on RT Film (If any of the following info missed in the film; have to reshoot):

- (1) Date
- (2) Area of Interest (A-B/1-2 etc.)
- (3) Exposer No/Letter
- (4) Weld Joint No. as per approved NDE Plan
- (5) Correct penetrometer/ IQI wire to be seen as per applicable code.

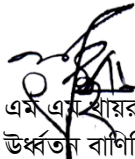
ঘ। অন্যান্য শর্তাবলীঃ

- ১) দর প্রস্তাবের সাথে দাখিলকৃত মোট মূল্যের ৩% আর্নেস্টম্যানি (ফেরতযোগ্য) খুলনা শিপইয়ার্ড লিমিটেড এর অনুকূলে পে-অর্ডার/ ব্যাংক ড্রাফট এর মাধ্যমে প্রদান করতে হবে।
- ২) কৃতকার্য ঠিকাদারকে মোট কার্যাদেশের (মালামালের মূল্যসহ) ৫% পারফরমেন্স গ্যারান্টি (ফেরতযোগ্য) খুলনা শিপইয়ার্ড লিমিটেড এর অনুকূলে পে-অর্ডার/ ব্যাংক ড্রাফট এর মাধ্যমে কার্যাদেশ গ্রহণের পূর্বে প্রদান করতে হবে।
- ৩) কাজ শেষে প্রকৃত পরিমাণ হিসাবে বিল পরিশোধ করা হবে। বাস্তবে সম্পাদিত কাজের পরিমাণ কম/ বেশি হতে পারে। ঠিকাদারকে সম্পন্নকৃত কাজের বিপরীতে এবং নির্ধারিত একক দরের ভিত্তিতে মোট বিল পরিশোধ করা হবে।
- ৪) NDT প্রতিষ্ঠান কর্তৃক সরবরাহকৃত জনবল/ ইকুইপমেন্ট দুর্ঘটনায় পতিত বা নষ্ট হলে এর দায়-দায়িত্ব ঠিকাদারী প্রতিষ্ঠানকেই বহন করতে হবে।
- ৫) বিষয়োক্ত কাজ একাধিক ধাপে বিভিন্ন সময়ে সম্পন্ন করতে হবে। বাস্তবে সম্পাদিত কাজের ভিত্তিতে এবং সন্তোষজনকভাবে সম্পন্ন হয়েছে মর্মে সংশ্লিষ্ট প্রজেক্ট অফিসার ও জিএম (নওপ) এর সুপারিশের আলোকে খুশিলির বিধি অনুযায়ী বিল পরিশোধ করা হবে।
- ৬) খুলনা শিপইয়ার্ড কর্তৃপক্ষ কোন কারণ দর্শানো ব্যতিরেকে যে কোন/ সকল কার্যাদেশ বাতিল করার ক্ষমতা সংরক্ষণ করে।
- ৭) খুশিলি কর্তৃক NDT এর জন্য প্রয়োজনীয় বিদ্যুৎ ও আলোক সরবরাহ করা হবে।
- ৮) খুশিলি কর্তৃক NDT এর জন্য প্রয়োজনীয় Scaffolding এর ব্যবস্থা করা হবে।
- ৯) খুশিলি কর্তৃক সংশ্লিষ্ট প্রতিষ্ঠানের ইকুইপমেন্ট সমূহ রাখার জন্য প্রয়োজন মোতাবেক ব্যবস্থা গ্রহণ করা হবে।
- ১০) NDT চলাকালীন NDT প্রতিষ্ঠানের জনবলের থাকার জন্য আবাসন সুবিধার প্রয়োজন হলে ঐ সময়ে খুশিলিতে রুম খালি থাকা সাপেক্ষে আবাসন সুবিধা প্রদান করা যেতে পারে। উল্লেখ্য, উক্ত রুমের প্রতিদিনের ভাড়া NDT প্রতিষ্ঠান বহন করবে।
- ১১) কাজটি আনুমানিক ২৮ অক্টোবর ২০২৫ তারিখে অথবা খুশিলি নির্ধারিত তারিখের পর থেকে শুরু করতে হবে।

ঙ। Article Wise Compliance Statement is to be provided during tender submission.

চ। দরপত্র মূল্যায়নঃ

উপরোক্ত NDT Testing এ সর্বনিম্নদর প্রদানকারী প্রতিষ্ঠানই প্রাথমিক ভাবে সর্বনিম্ন দরদাতা বলে বিবেচিত হবে। তবে কারিগরি মূল্যায়নের পর চূড়ান্ত সর্বনিম্নদরদাতা মনোনীত করা হবে।

  
এম এম খায়রুল আলম  
উর্ধ্বতন বাণিজ্যিক কর্মকর্তা  
পক্ষে ম্যানেজিং ডাইরেক্টর

টেন্ডার কমিটির স্বাক্ষরঃ

বানিজ্যিক শাখা

হিসাবরক্ষণ বিভাগ


ব্যবহারকারী

আমরা উপরে বর্ণিত সমস্ত শর্তাবলী মেনে নিলাম।

ঠিকাদারের স্বাক্ষর

ভ্যাট নিবন্ধন নং-

টিআইএন নং-

OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khulna-9201 Phone : 88-041-720728 Fax : 88-041-720404 E-mail : khulna_shipyard@khulna.com</small>	HULL No. NB 790,791,794 & 795	TITLE:  N.D.E PLAN <div>(SHEET 01 OF 31)</div>	
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com	DRAWN : AL AMIN		SCALE : N.T.S (A4 SHT)
	CHECKED : MZ		PROJECT NO : P-744A
	DATE : 21 SEPTEMBER, 2025		DRG NO : P744A-331-01-R0

PRINCIPAL DIMENSIONS

LENGTH O.A. (EXCLUDING FENDERS)	21.00 M
LENGTH LWL	20.67 M
LENGTH B.P	20.23 M
BREADTH MLD.	8.50 M
DEPTH MLD.	2.50 M
LOADED DRAFT	1.20 M
SPEED	7.50 Kn

REV	OWNER/ CLIENT	CLASS	YARD	APPROVED/ REVIEWED
THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS SUPPLIED ON THE UNDERSTANDING THAT THEY ARE THE EXCLUSIVE PROPERTY OF SST MARINE SOLUTIONS LTD. THEY MUST NOT BE USED OR REPRODUCED IN THE WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION.				

CLASS : Lloyd's Register (LR)  
NOTATION: 100A1 SSC, WORKBOAT, G2

<b>OWNER :</b> <i>Bangladesh Inland Water Transport Authority</i>		<b>PROJECT:</b> <i>21M CRANE BOAT</i>	
<b>BUILDER :</b> <b>KHULNA SHIPYARD LIMITED</b> <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	<b>HULL No.</b> <b>NB 790,791,794 &amp; 795</b>	<b>TITLE:</b> <div style="text-align: center;"><i>N.D.E PLAN</i></div> <div style="text-align: right;"><small>(SHEET 02 OF 31)</small></div>	
<b>SST MARINE SOLUTIONS LTD</b> <small>PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com</small>		<b>DRAWN :</b> <i>AL AMIN</i>	<b>SCALE :</b> <i>N.T.S (A4 SHT)</i>
		<b>CHECKED :</b> <i>MZ</i>	<b>PROJECT NO :</b> <i>P-744A</i>
		<b>DATE :</b> <i>21 SEPTEMBER, 2025</i>	<b>DRG NO :</b> <i>P744A-331-02-R0</i>

TOTAL CHECKING NDE POINTS FOR (01 HULL)		
SL. No.	POSITION	NO OF POINTS (PS + SB)
1	RT POSITIONS	40
2	UT POSITIONS	02
3	MPT POSITIONS	07
4	DPT POSITIONS	19
TOTAL NO. OF NDE POINTS = 68		

TABLE OF CONTENT		
SL	CONTENT	PAGE NUMBER
1	PURPOSE	3
2	REFERENCE	3
3	TESTING METHODS	3
4	NON DESTRUCTIVE	3-5

1. GENERAL REQUIREMENT
2. EXPLANATION
3. NUMBERING
4. NUMBERS AND SPORTS SUBJECTED TO INSPECTIONS
5. NDT PLAN (HULL NO NB-790,791,794&795-4 NOS.DRAWING IS ATTACHED WITH THIS DOCUMENT)

ANNEX 1: LR RULES FOR SPECIAL SERVICE CRAFT, PART 6,CHAPTER 2 SECTION 3.5: TYPICAL LOCATIONS FOR VOLUMETRIC EXAMINATION AND NUMBER OF CHECKPOINTS TO BE TAKEN.

ANNEX 2: NDE CHECKPOINTS CALCULATION

ANNEX 3: NDE PLAN

ANNEX 4: NDE PLAN SUMMARY

1. PURPOSE

THE NDT PLAN IS A DOCUMENT PREPARED TO COMPLY LLOYD’S REGISTER RULES AND REGULATION FOR CLASSIFICATION OF SPECIAL SERVICE CRAFT, JULY 2022, PART 6, CHAPTER 2 SECTION 3.5.

THE NDT PLAN CONTAINS TOTAL NUMBER OF INSPECTIONS, CHECKPOINT LOCATION AND INFORMATION ABOUT THE FINISHED WELD.

THIS DOCUMENT ONLY APPLIES FOR HULL NO NB-790,791,794 & 795 TO BE BUILT AT KHULNA SHIPYARD LIMITED (KSL).

REV	OWNER/ CLIENT	CLASS	YARD	APPROVED/ REVIEWED

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CLASS
:
Lloyd’s Register (LR)

NOTATION:
☒100A1 SSC, WORKBOAT, G2

<b>OWNER :</b> Bangladesh Inland Water Transport Authority		<b>PROJECT:</b> 21M CRANE BOAT	
<b>BUILDER :</b> <b>KHULNA SHIPYARD LIMITED</b> <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	<b>HULL No.</b> NB 790,791,794 & 795	<b>TITLE:</b> N.D.E PLAN <div style="text-align: right;">(SHEET 03 OF 31)</div>	
<b>SST MARINE SOLUTIONS LTD</b> <small>PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com</small>		<b>DRAWN :</b> AL AMIN <b>CHECKED :</b> MZ <b>DATE :</b> 21 SEPTEMBER, 2025	<b>SCALE :</b> N.T.S (A4 SHT) <b>PROJECT NO :</b> P-744A <b>DRG NO :</b> P744A-331-03-R0

3. TESTING METHODS

FOR DETECTION OF SURFACE DISCONTINUITIES: VISUAL TESTING (VT)  
 MAGNETIC PARTICLE TESTING (MT)  
 LIQUID PENETRANT TESTING (PT)  
 FOR DETECTION OF EMBEDDED DISCONTINUITIES: ULTRASONIC TESTING (UT) AND RADIOGRAPHIC TESTING (RT)

4. NON- DESTRUCTIVE TESTING PLAN.



- a) GENERAL REQUIREMENT
1. BEFORE PROCEEDING TO RT AND UT, WELDED JOINTS SHOULD BE VISUALLY INSPECTED FOR INADMISSIBLE DEFECTS. INSPECTION IS CARRIED OUT BY A WELDING FORMAN AND QC SURVEYOR AT YARD.
  2. ANY EXTERNAL INADMISSIBLE DEFECTS ARE FOUND; THE RT & UT MUST BE STOPPED INSTANTLY UNTIL THE FAULTS ARE REMOVE.
  3. SUCH PLACE SHOULD BE SELECTED FOR INSPECTION WHICH ARE PARTICULAR SUSCEPTIBLE TO OCCURRENCE OF DEFECTS, PLACE OF FINISHING AND RESTARTING OF WELDING, CROSSING OF WELDS ETC.
  4. IRRESPECTIVE OF NUMBER AND DISTRIBUTION OF INSPECTION SECTIONS GIVEN IN THE INSTRUCTIONS, ADDITIONAL IN SECTION OF WELDED JOINTS MAY BE REQUIRED BY LR SURVEYOR, AT PLACES NOT COVERED BY INSPECTION PLAN.
  5. MINIMUM LENGTH OF RT: 300 MM, MINIMUM LENGTH OF UT: 500 MM. AT WELDED INSPECTIONS EXAMINATION IS TO BE IN ONE WELD DIRECTIONS.
  6. KSL IS TO PROVIDE THE SURVEYOR WITH ALL THE NDE REPORTS OF THE CHECKPOINTS. THESE REPORTS ARE TO BE AVAILABLE FOR THE SURVEYOR TO REVIEW WITHIN 10 WORKING DAYS OF THE EXAMINATION BEING CARRIED OUT. WHERE WELDS ARE REPAIRED THE NDE REPORT IS TO INCLUDE DETAILS OF EXAMINATION OF THE DEFECTIVE WELD OF THE RE-WELD.
  7. IF CHECKPOINT HAS BEEN REPAIRED WITHOUT RECORD OF THE ORIGINAL DEFECT, THE SHIPYARD IS TO CARRY OUT ADDITIONAL EXAMINATIONS ON ADDITIONAL EXAMINATION LENGTHS OF WELD. THESE LENGTHS ARE TO BE ADJACENT TO AND ON BOTH SIDES OF THE DEFECTIVE CHECKPOINT. THESE ADDITIONAL EXAMINATIONS ARE TO BE CARRIED OUT IN THE PRESENCE OF THE SURVEYOR AND REPORTED IN ACCORDANCE TO ABOVE.
  8. WHERE CHECKPOINTS ARE FOUND TO CONTAIN CONTINUOUS OR SEMI-CONTINUOUS DEFECTS, ADDITIONAL LENGTHS OF WELD ADJACENT TO AND ON BOTH SIDES OF THE DEFECTIVE LENGTH ARE TO BE SUBJECT TO FURTHER VOLUMETRIC EXAMINATION AND THE NDE REPORTS ARE TO BE SUBMITTED.
  9. CHECKPOINTS ARE TO BE IDENTIFIED ON THE SHIP'S STRUCTURAL COMPONENTS PRIOR TO THE WELDING TAKING PLACE. SPECIAL TREATMENT IS NOT TO BE GIVEN AT THESE LOCATIONS.
  10. RT TO BE CARRIED OUT FOR ALL CHECKPOINTS WHERE THICKENED OF PLATING IS LESS THAN 8MM. UT, PT, MT MAY BE USED WHERE POSITION DO NOT ALLOW FOR RT.
  11. WHERE DEFECTS ARE OBSERVED ADDITIONAL NDE TO BE CARRIED OUT AS PER PROCEDURE TO DETERMINE THE FULL EXTENT.
  12. WHERE SURVEYOR ON DOUBT OF THE QUALITY OF WELDING/WORKMANSHIP ADDITIONAL NDE POINTS WILL BE MARKED TO SUBSTANTIATE THE QUALITY OF WELD.
  13. THE RESULTS OF NDE MADE DURING THE CONSTRUCTION ARE TO BE RECORDED BY THE SHIP BUILDER ON A CONTINUOUS BASIS IN ORDER THAT QUALITY OF WELDING CAN BE MONITORED. THESE RECORDS ARE TO BE MADE AVAILABLE TO THE ATTENDING SURVEYOR WHEN NECESSARY.
  14. THE EXTENT OF APPLIED NDE TO BE INCREASED WHEN WARRANTED BY THE ANALYSIS OF PREVIOUS REPORT OR SIMILAR SITUATION NOTICED PRODUCTION.

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED

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CLASS : Lloyd's Register (LR)

NOTATION: 100A1 SSC, WORKBOAT, G2

OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	 <small>Phone : 88-041-720728 Fax : 88-041-720404 E mail : khulna_shipping@yahoo.com</small>	HULL No. NB 790,791,794 & 795	
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com		TITLE: N.D.E PLAN (SHEET 04 OF 31)	
		DRAWN : AL AMIN	SCALE : N.T.S (A4 SHT)
		CHECKED : MZ	PROJECT NO : P-744A
		DATE : 21 SEPTEMBER, 2025	DRG NO : P744A-331-04-R0

15. DP, UT TO BE CARRIED OUT IN PLACES WHERE RT IN NOT PRACTICABLE.
16. PENALTY JOINTS FOR REPAIRS SHALL BE AT DISCRETION OF SIDE SURVEYOR
17. NDT SHELL BE CARRIED OUT IN CONJUNCTION ON THE NOTES MENTIONS IN TABLE 2.3.1, LR RULES FOR SPECIAL SERVICE CRAFT.

b) EXPLANATION

1. RT POSITIONS AND SYMBOL



2. UT POSITIONS AND SYMBOL



3. MPT POSITIONS AND SYMBOL



4. DPT POSITIONS AND SYMBOL



c) NUMBERING:

NON-DESTRUCTIVE TESTING POINTS TO BE NUMBERED AS BELOW:

PROJECT NO.- LOCATION ? POINTS NO.

EXAMPLE: FOR EACH PROJECT NUMBER THE JOINT ID, JOINT THICKNESS, LOCATION, FRAMES NUMBER AND TYPE OF JOINT HAS BEEN SPECIFIED SEPARATELY.


(SEE ANNEX-3)

d) MEMBERS AND SPOTS SUBJECTED TO INSPECTIONS

1. THE WELDING JOINT OF SHEER STRAKES WITH DECK STRINGER PLATE TO BE CHECKED BY RT AND MT.
2. THE WELDING JOINT OF SEA-CHEATS TO BE CHECKED BY PT.
3. WELDS AT INSERTS USED TO CLOSE OPENINGS IN HULL ENVELOPE PLATING ARE TO BE CHECKED BY NON-DESTRUCTIVE EXAMINATION.
4. INTERSECTION OF BUTT AND SEEM OF FABRICATION AND SECTION WELDS TO BE VERIFIED AS PER TABLE 2.3.1

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CLASS : Lloyd's Register (LR)  
NOTATION:  100A1 SSC, WORKBOAT, G2

OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN <div>(SHEET 05 OF 31)</div>	
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com	DRAWN : AL AMIN	SCALE : N.T.S (A4 SHT)	
	CHECKED : MZ	PROJECT NO : P-744A	
	DATE : 21 SEPTEMBER, 2025	DRG NO : P744A-331-05-R0	

5. MACHINERY AND OUTFITTING FOUNDATION AS REQUIRED BY ATTENDING SURVEYOR;

- i. MAIN/AUXILIARY ENGINE FOUNDATION.
- ii. CRANE FOUNDATION
- iii. GEAR BOX FOUNDATION
- iv. A-FRAME
- v. RUDDER FOUNDATION
- vi. ALL HULL PENETRATIONS

e) NDT PLAN (HULL NO NB-790,791,794 & 795- 4 NOS. DRAWING IS ATTACHED WITH THIS DOCUMENT)

REMARK:

- a. POSITIONS OF NDE POINTS ARE GIVEN IN THE ATTACHED DRAWING HULL NO NB-790,791,794 & 795-4NOS
- b. MARKED CHECKING POINT ULTRASONIC TESTING/RADIOGRAPHIC TESTING (UT/RT).
- c. ACTUAL JOINT LOCATIONS MAY VARY, UT/RT POINTS TO BE AMENDED ACCORDINGLY.

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CLASS : Lloyd's Register (LR)

NOTATION: 100A1 SSC, WORKBOAT, G2

**Table 2.3.1 Non-destructive examinations of welds**

Volumetric non-destructive examinations - Recommended extent of testing		
Item	Location	Checkpoints, see Notes 1,2 and 4 (these are common to all listed item locations)
Intersections of butt and seams of fabrication and section welds	Throughout: <ul style="list-style-type: none"> <li>• hull envelope</li> <li>• longitudinal and transverse bulkheads</li> <li>• inner bottom and hopper bottom</li> </ul>	Checkpoints shall be taken at these locations; the summation of checkpoint lengths examined at intersections is to be $0,2L$ , where $L$ is the overall length of the ship in metres.
Butt welds in plating	Throughout	1 m in 100 m, see Note 3
Seam welds in plating	Throughout	1 m in 200 m, see Note 3
Butts in longitudinals	Hull envelope within $0,4L$ amidships	1 in 40 welds
	Hull envelope outside $0,4L$ amidships	1 in 30 welds
Bilge keel butts	Throughout	1 in 40 welds
Structural items when made with full penetration welding as follows: <ul style="list-style-type: none"> <li>• connection of stool and bulkhead to lower stool shelf plating</li> <li>• vertical corrugations to an inner bottom</li> <li>• hopper knuckles</li> <li>• sheerstrake to deck stringer</li> <li>• hatchways coaming to deck</li> </ul>	Throughout	1 m in 60 m
<p><b>Note 1.</b> The length of each checkpoint is to be between 0,3m and 0,5m, where the length of weld permits.</p> <p><b>Note 2.</b> For checkpoints at intersections the measured dimension of length is to be in the direction of the butt weld. See <a href="#">Figure 2.3.1 Inspection of checkpoints located on longitudinal stiffeners</a> to</p>		



Figure 2.3.3 Checkpoint positions in way of radiography and ultrasonic inspection on deck plating

Note 3. Checkpoints in butt welds and seam welds are in addition to those at intersections.

Note 4. The NDE checkpoint locations are not to be indicated on the blocks prior to the welding taking place, nor is any special treatment to be given at these locations.

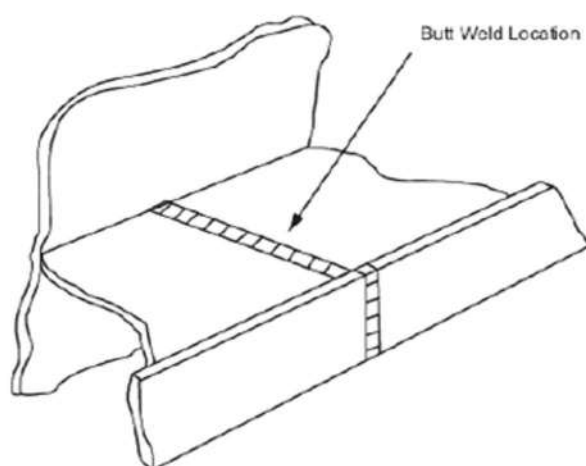
3.5.5 Any checkpoint which contains a rejectable weld discontinuity shall be repaired, as appropriate, and retested. Furthermore, volumetric NDE shall be increased by an additional one checkpoint for each checkpoint failure, to be chosen at random by the Surveyor. This additional checkpoint is supplementary to the repaired/retested location.

3.5.6 Systematic defects or repetitive defects shall be investigated, rectified, and retested where appropriate. The extent of NDE checkpoints shall be increased in way of the areas, weld types or intersections, where the systematic or repeated defects are observed, by an additional 50 per cent of the affected item (listed in Item column of [Table 2.3.1 Non-destructive examinations of welds](#), to determine the weld quality.

3.5.7 If there is evidence to suggest the overall welding quality is not of a satisfactory nature, then a further NDE checkpoint regime, and enhanced quality assurance process, shall be applied. The fabricator shall present to the Surveyor the additional measures and regime to be implemented.

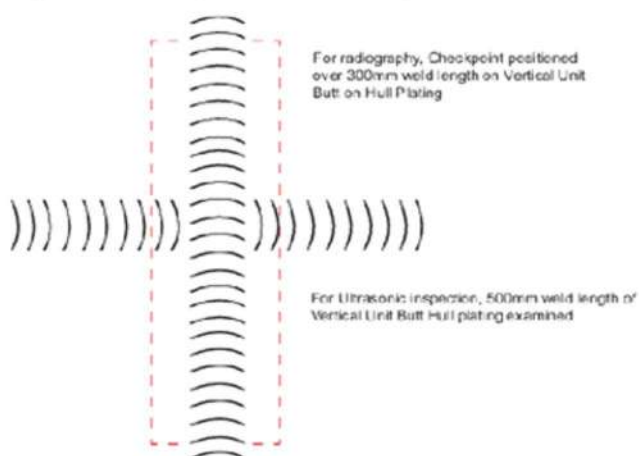
3.5.8 If cracks of any type or size are detected, then [Pt 6, Ch 2, 3.5 Inspection and non-destructive examination 3.5.5](#) and [Pt 6, Ch 2, 3.5 Inspection and non-destructive examination 3.5.6](#) shall apply.

3.5.9 Isolated gas pores, slag inclusions, or metallic inclusions shall not be considered as systematic defects, however, they must be assessed individually with respect to the applicable acceptance criteria within LR Rules, and [Pt 6, Ch 2, 3.5 Inspection and non-destructive examination 3.5.5](#) shall apply. All other defect types when repeatedly observed shall be considered as systematic defects, and [Pt 6, Ch 2, 3.5 Inspection and non-destructive examination 3.5.6](#) shall apply.



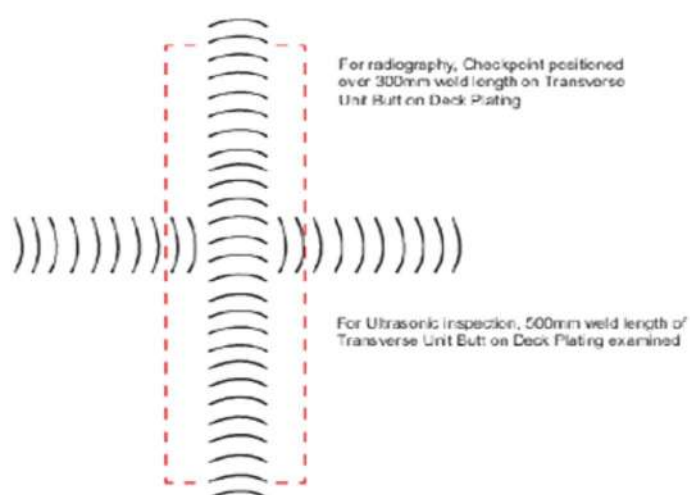
The length of butt welds located at checkpoints on longitudinal stiffeners may be less than 300 mm for radiography or 500 mm for ultrasonic inspection. In such cases inspect as much of the welds as access permits.

**Figure 2.3.1 Inspection of checkpoints located on longitudinal stiffeners**



Note for illustration, drawing shows checkpoint in vertical butt direction. For seam welds, the checkpoint location may lay in the horizontal direction.

**Figure 2.3.2 Checkpoint positions in way of radiography and ultrasonic inspection on hull plating**



Note for illustration, drawing shows checkpoint in vertical butt direction. For seam welds, the checkpoint location may lay in the horizontal direction.

**Figure 2.3.3 Checkpoint positions in way of radiography and ultrasonic inspection on deck plating**

### 3.6 Acceptance criteria

3.6.1 The surfaces of all finished welds are to be reasonably smooth and substantially free from undercut and overlap. Care is to be taken to ensure that the specified dimensions of welds have been achieved and that both excessive reinforcement and underfill of welds are avoided.

3.6.2 The acceptance criteria are to be in accordance with the appropriate Tables contained within [Ch 13. 2 Specific requirements for ship hull structure and machinery](#) of the [Rules for the Manufacture, Testing and Certification of Materials, July 2022](#).

OWNER : <b>Bangladesh Inland Water Transport Authority</b>		PROJECT: <b>21M CRANE BOAT</b>	
BUILDER : <b>KHULNA SHIPYARD LIMITED</b> <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	HULL No. <b>NB 790,791,794 &amp; 795</b>	TITLE: <b>N.D.E PLAN</b> <div style="text-align: right;">(SHEET 10 OF 31)</div>	
<b>SST MARINE SOLUTIONS LTD</b> PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com		DRAWN : <b>AL AMIN</b>	SCALE : <b>N.T.S</b> (A4 SHT)
		CHECKED : <b>MZ</b>	PROJECT NO : <b>P-744A</b>
		DATE : <b>21 SEPTEMBER, 2025</b>	DRG NO : <b>P744A-331-10-R0</b>

ANNEX 2: NDE CHECKPOINTS CALCULATIONS



TABLE 2.3.1 NON-DESTRUCTIVE EXAMINATIONS OF WELDS FOR HULL NO NB-790,791,794 & 795

VOLUME NON-DESTRUCTIVE EXAMINATION-RECOMMENDED EXTENT OF TESTING				
SL	ITEMS	LOCATION	CHECKPOINTS, SEE NOTES 1,2 AND 4 (THESE ARE COMMON TO ALL LISTED ITEM LOCATIONS)	EXAMINED INTERSECTIONS, BUTT WELDS & SEAM WELDS
1	INTERSECTION OF BUTTS AND SEAMS OF FABRICATION AND SECTION WELDS	THROUGHOUT: (a) HULL ENVELOPE, SHELL ENVELOPE AND DECK STRUCTURE PLATING: * HULL ENVELOPE * LONGITUDINAL AND TRANSVERSE BULKHEADS * INNER BOTTOM AND HOPPER BOTTOM	CHECKPOINTS SHALL BE TAKEN AT THESE LOCATIONS; THE SUMMATION OF CHECKPOINT LENGTHS EXAMINED AT INTERSECTIONS IS TO BE 0,2L, WHERE L IS THE OVERALL LENGTH OF THE SHIP IN METERS.	KEEL:04 POINTS BOTTOM:10 POINTS MAIN DECK:08 POINTS TRANSVERSE BHD :01 POINTS
2	BUTT WELDS IN PLATING	THROUGHOUT:	1 M IN 100 M, SEE NOTE 3 (TOTTAL 110M±)	CHECK POINTS: 04 NOS
3	SEAM WELDS IN PLATING	THROUGHOUT:	1 M IN 200 M, SEE NOTE 3 (TOTTAL 220M±)	CHECK POINTS: 05 NOS
4	BUTT WELDS IN LONGITUDINAL	HULL ENVELOPE WITHIN 0.4L AMIDSHIPS HULL ENVELOPE OUTSIDE 0.4L AMIDSHIPS	1 IN 40 WELDS 1 IN 30 WELDS	CHECK POINTS: 04 NOS CHECK POINTS: 06 NOS
5	ALL INSERT PLATS			CHECK POINTS: 07 NOS
6	ALL DRAIN PLUG			CHECK POINTS: 19 NOS
7	BILGE KEEL BUTT WELDS	THROUGHOUT:	1 IN 40 WELDS	
8	STRUCTURAL ITEMS WHEN MADE WITH FULL PENETRATION WELDING AS FOLLOWS: * CONNECTION OF STOOL AND BULKHEAD TO LOWER STOOL SHELL PLATING * VERTICAL CORRUGATIONS TO AN INNER BOTTOM * HOPPER KNUCKLES * SHEER STRAKE TO DECK STRINGER * HATCHWAYS COAMING TO DECK	THROUGHOUT:	1 IN 60 M	

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CLASS : Lloyd's Register (LR)

NOTATION: 100A1 SSC, WORKBOAT, G2

OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	 <small>Phone : 88-041-720728 Fax : 88-041-720404 E mail : khulna_shipyard@khulna.com</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN (SHEET 11 OF 31)
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com		DRAWN : AL AMIN	SCALE : N.T.S (A4 SHT)
		CHECKED : MZ	PROJECT NO : P-744A
		DATE : 21 SEPTEMBER, 2025	DRG NO : P744A-331-11-R0

NOTE:1. THE LENGTH OF EACH CHECKPOINT IS TO BE BETWEEN 0,3M AND 0,5M, WHERE THE LENGTH OF WELD PERMITS.

NOTE:2. FOR CHECKPOINTS AT INTERSECTIONS THE MEASURED DIMENSION OF LENGTH IS TO BE IN THE DIRECTION OF THE BUTT WELD.

SEE FIGURE 2.3.1 INSPECTION OF CHECKPOINTS LOCATED ON LONGITUDINAL STIFFENERS TO

FIGURE2.3.3 CHECKPOINT POSITIONS IN WAY OF RADIOGRAPHY AND ULTRASONIC

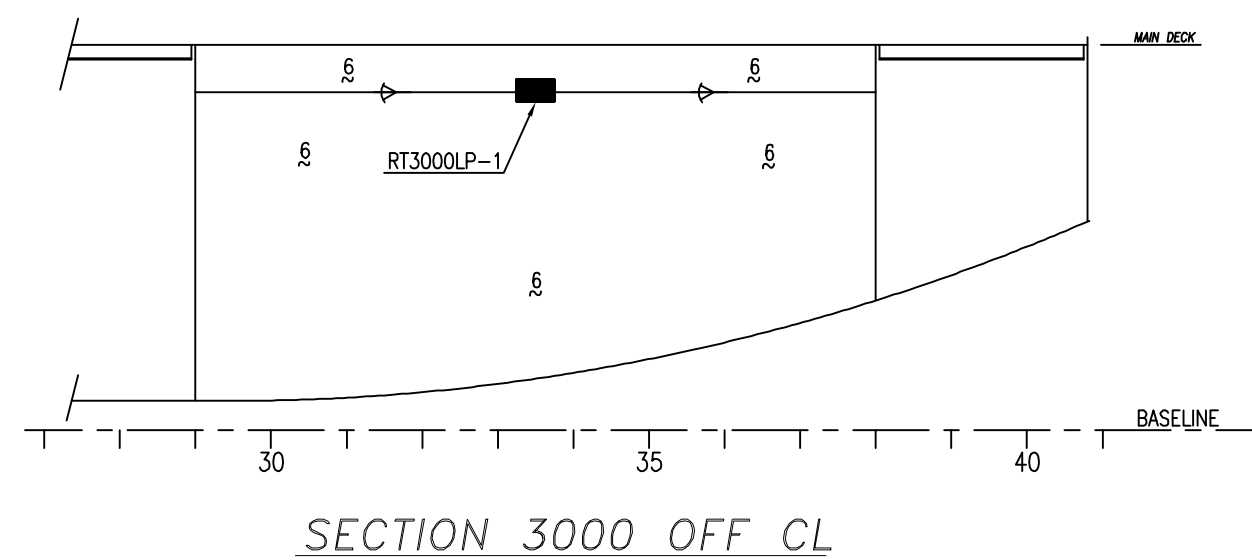
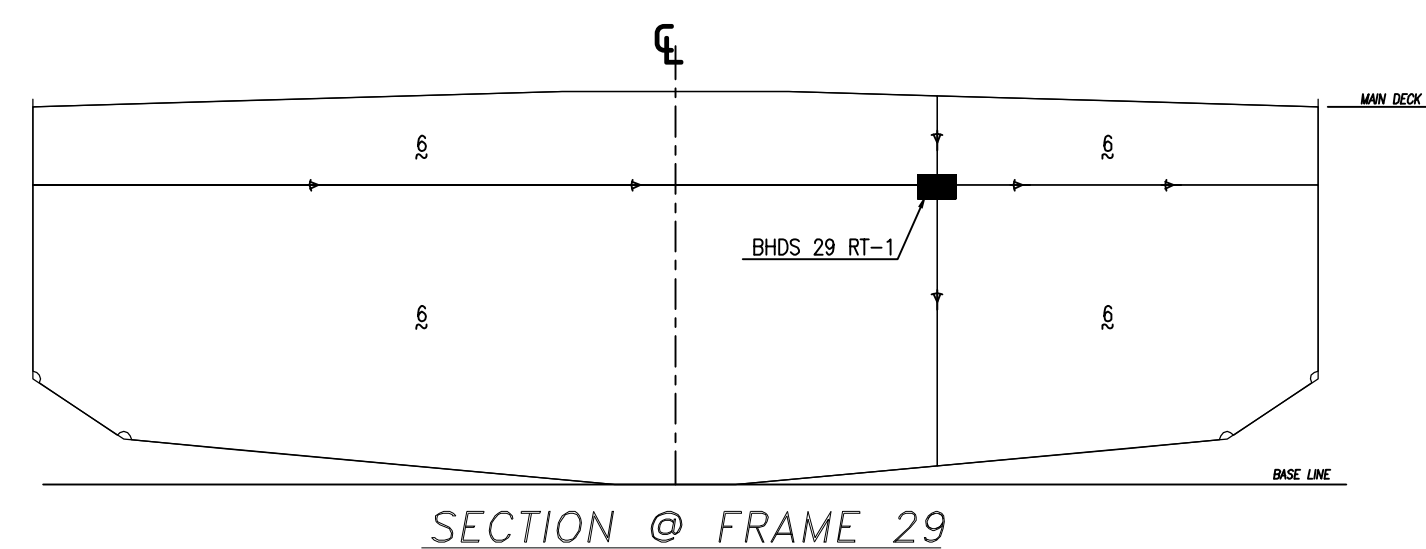
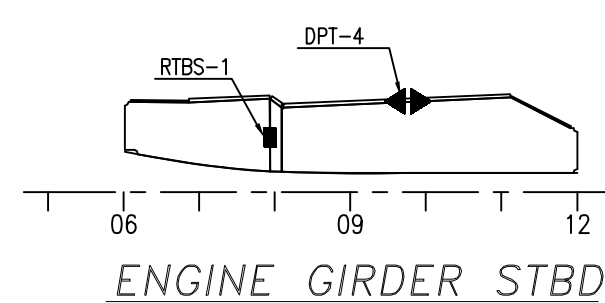
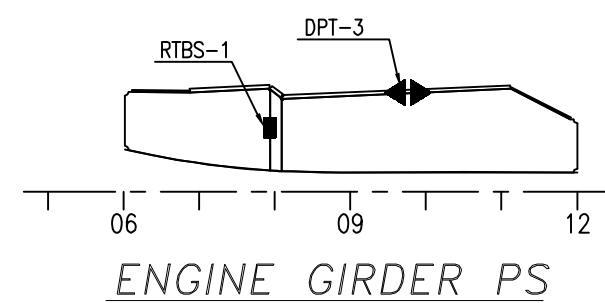
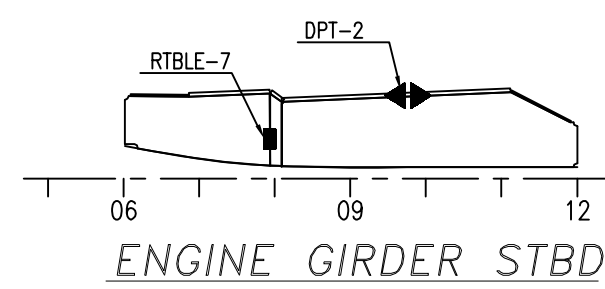
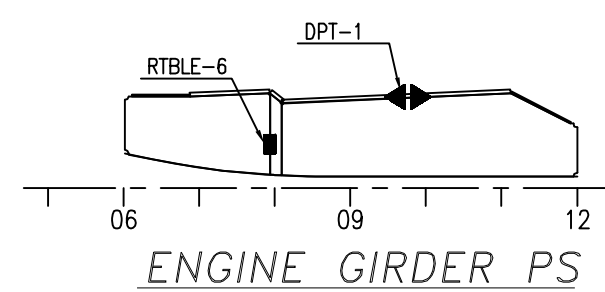
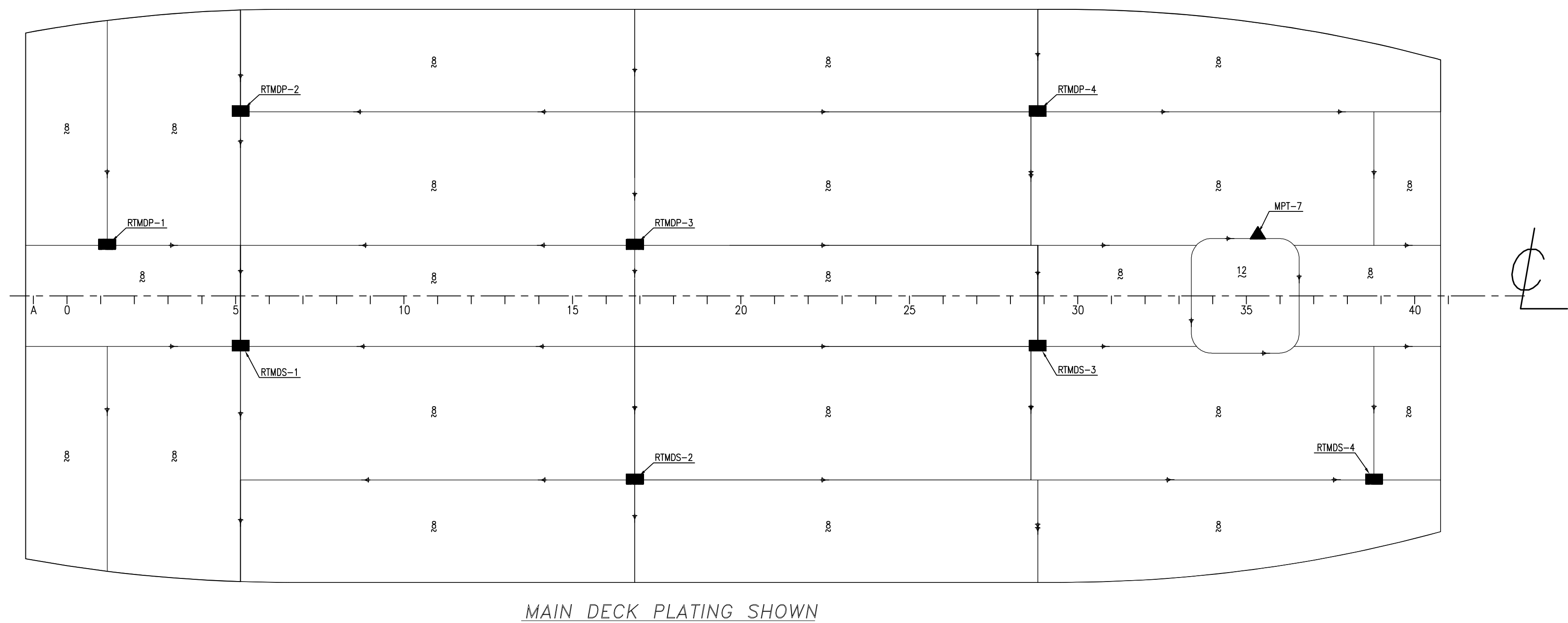
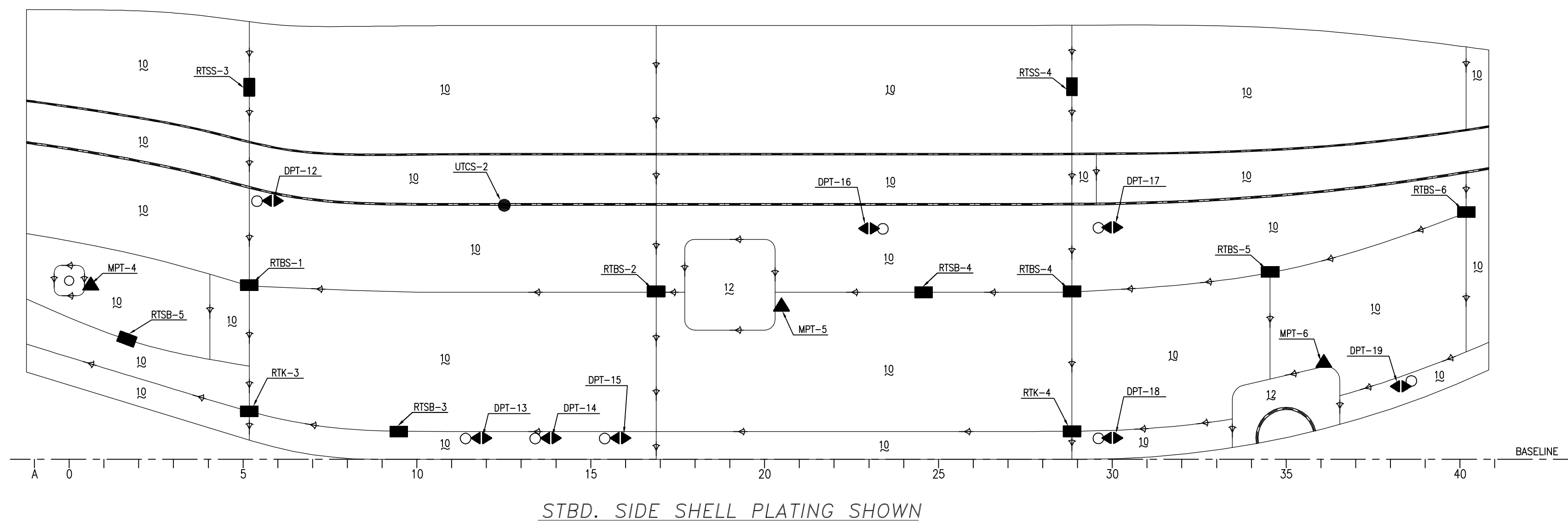
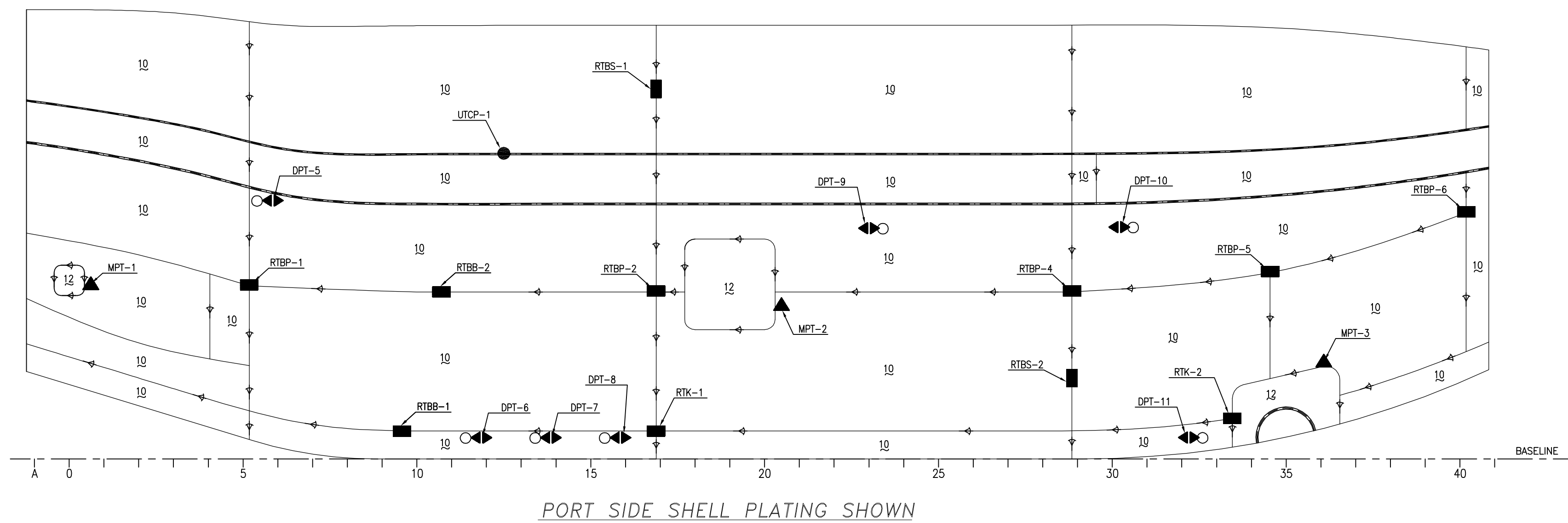
NOTE: 3. CHECKPOINTS IN BUTT WELDS AND SEAM WELDS ARE IN ADDITION TO THOSE AT INTERSECTIONS.

NOTE: 4. THE NDE CHECKPOINT LOCATION ARE NOT TO BE INDICATED ON THE BLOCKS PRIOR TO THE WELDING TAKING PLACE,NOR IS ANY SPECIAL TREATMENT TO BE GIVEN AT THESE LOCATIONS.

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CLASS : Lloyd's Register (LR)

NOTATION:  100A1 SSC, WORKBOAT, G2

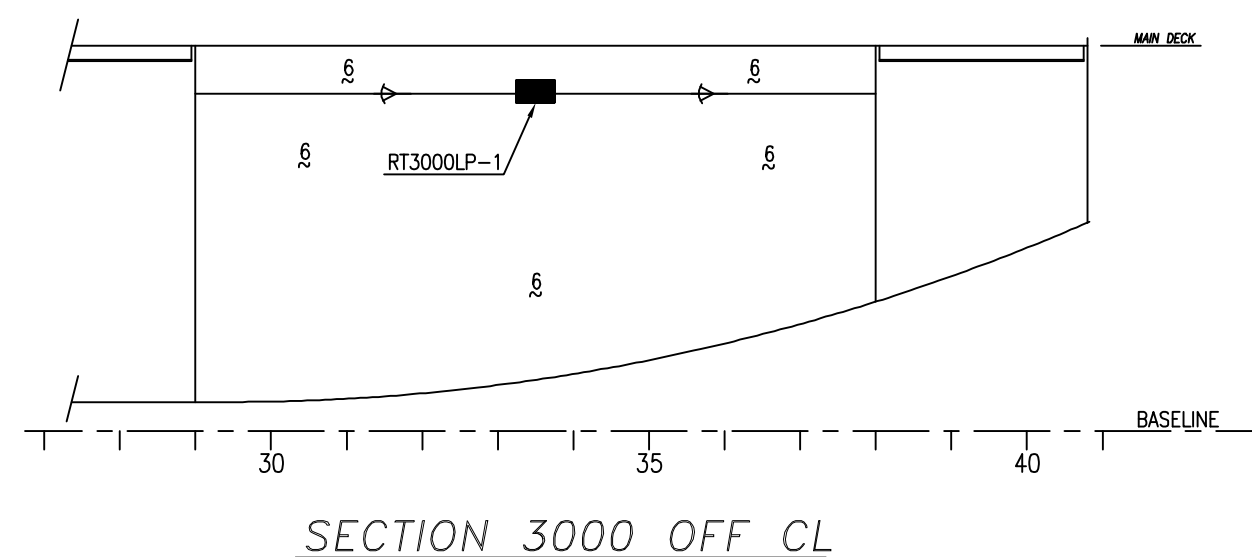
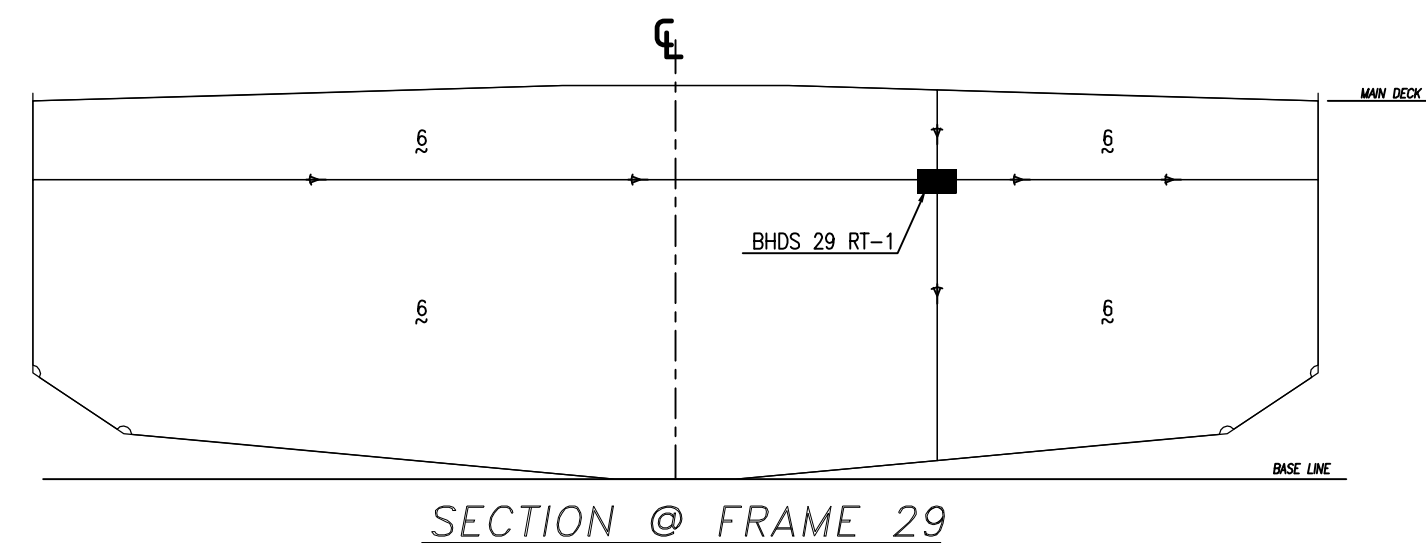
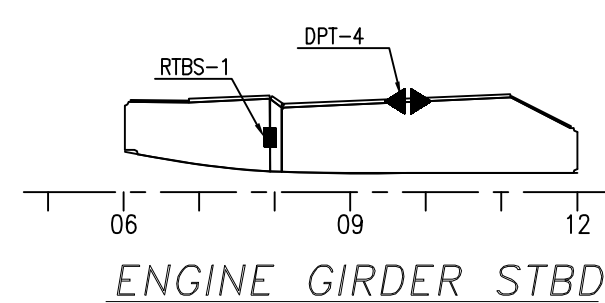
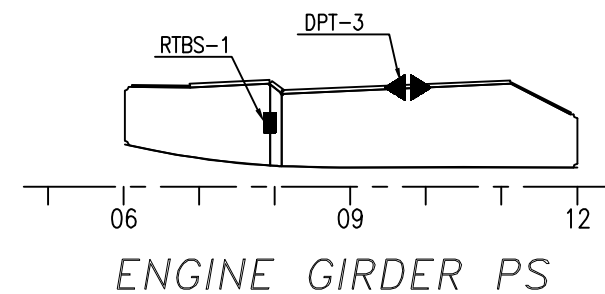
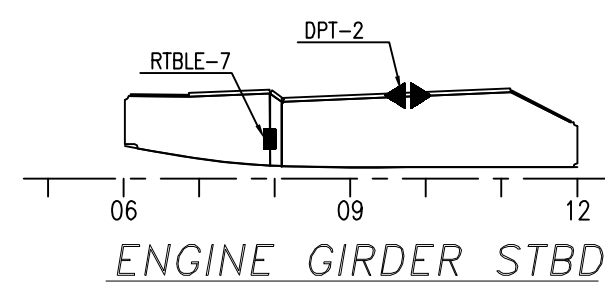
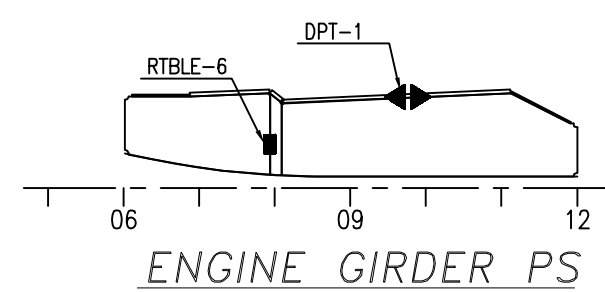
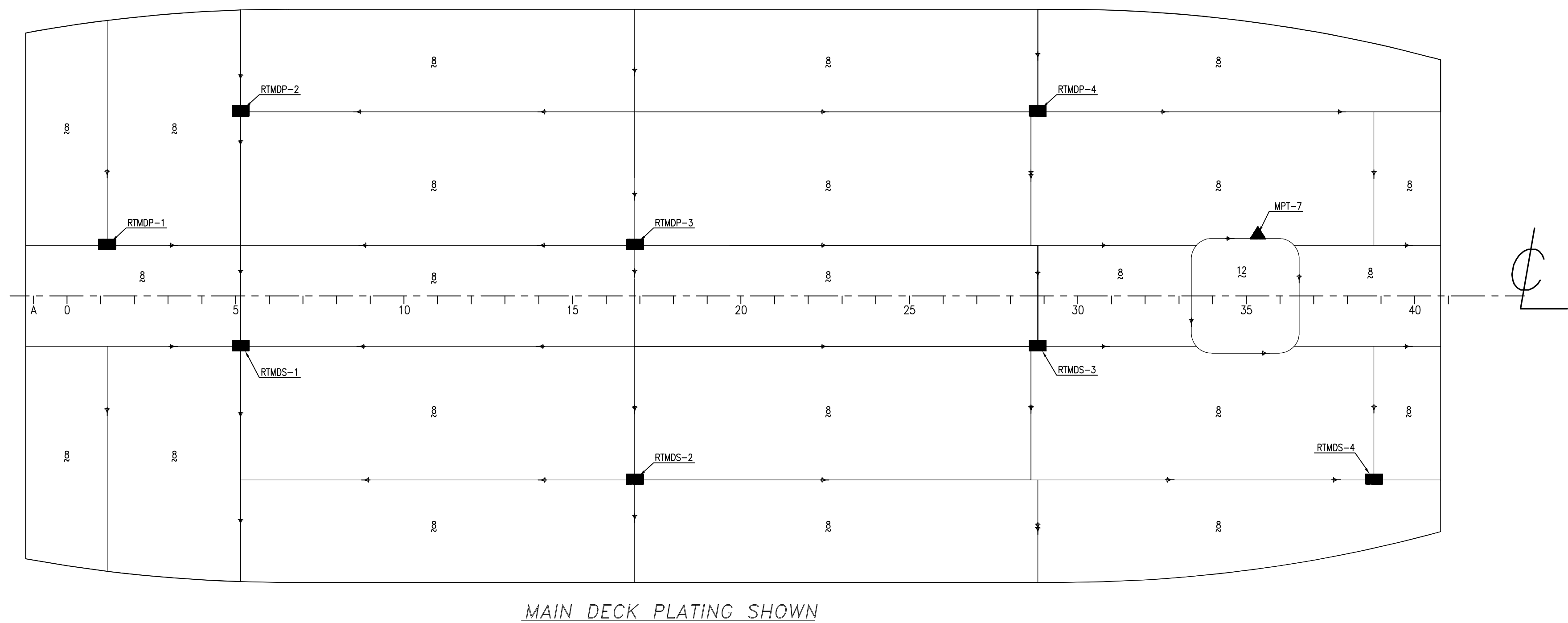
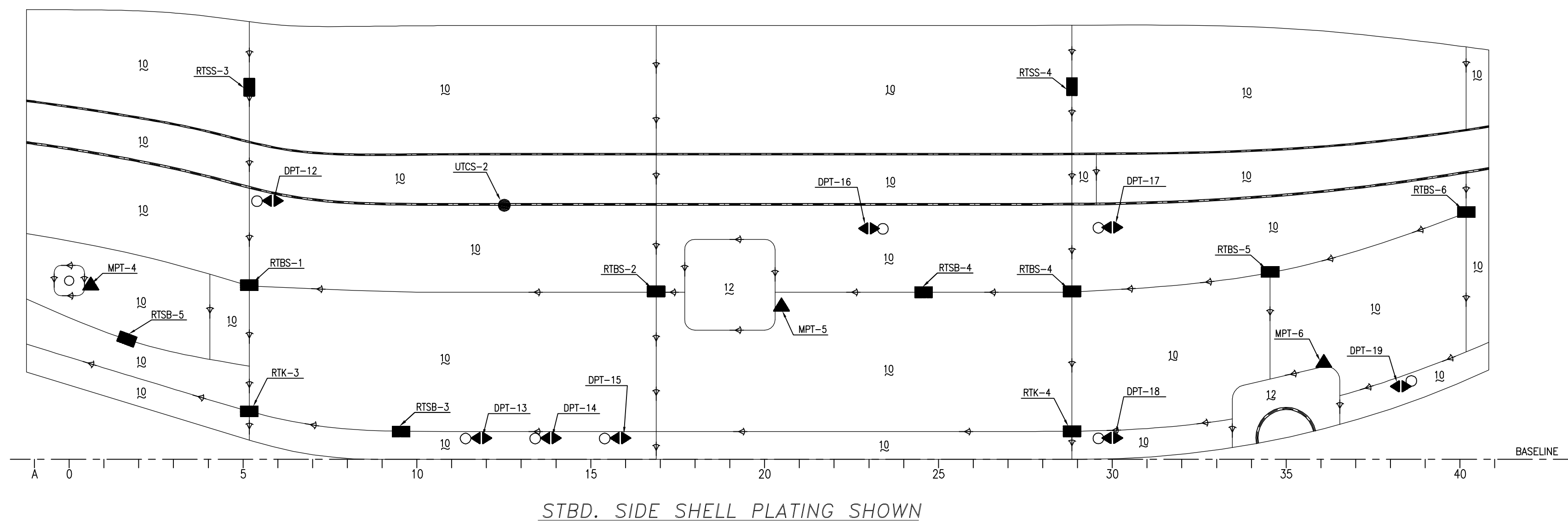
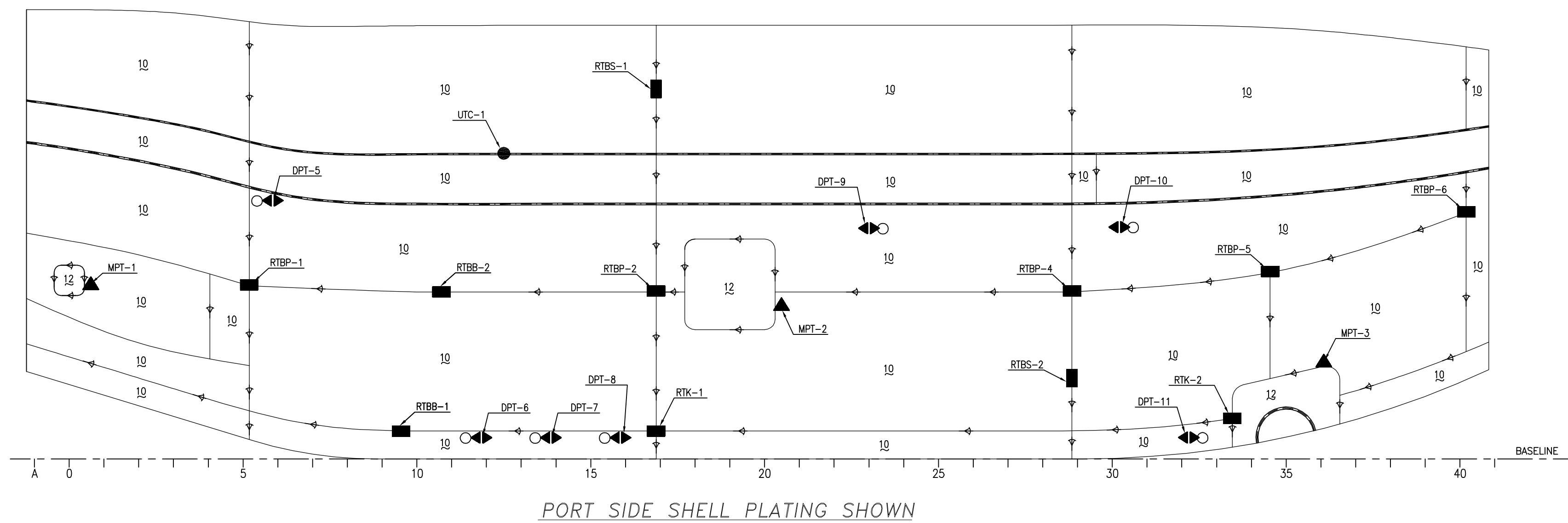


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 NOTATION: 100A1 SSC, WORKBOAT, G2

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OWNER Bangladesh Inland Water Transport Authority			
BUILDER <b>KHULNA SHIPYARD LIMITED</b> Bangladesh Navy Khulna-9201 Bangladesh. Phone : 88-041-725738 Fax : 88-041-725404 E-mail : khulna_shipping@yahoo.com			HULL NO. NB-790
PROJECT 21M CRANE BOAT			
TITLE N.D.E PLAN (SHEET 12 OF 31)			
REV	OWNER/CLIENT	CLASS	YARD
DATE : 21 SEPTEMBER, 2025	SCALE : 1:50	A1	
DRAWN BY : AL AMIN	PROJECT NO : P-744A		
CHECKED BY : MZ	DRG NO : P744A-331-12-R0		

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 NOTATION: 100A1 SSC, WORKBOAT, G2

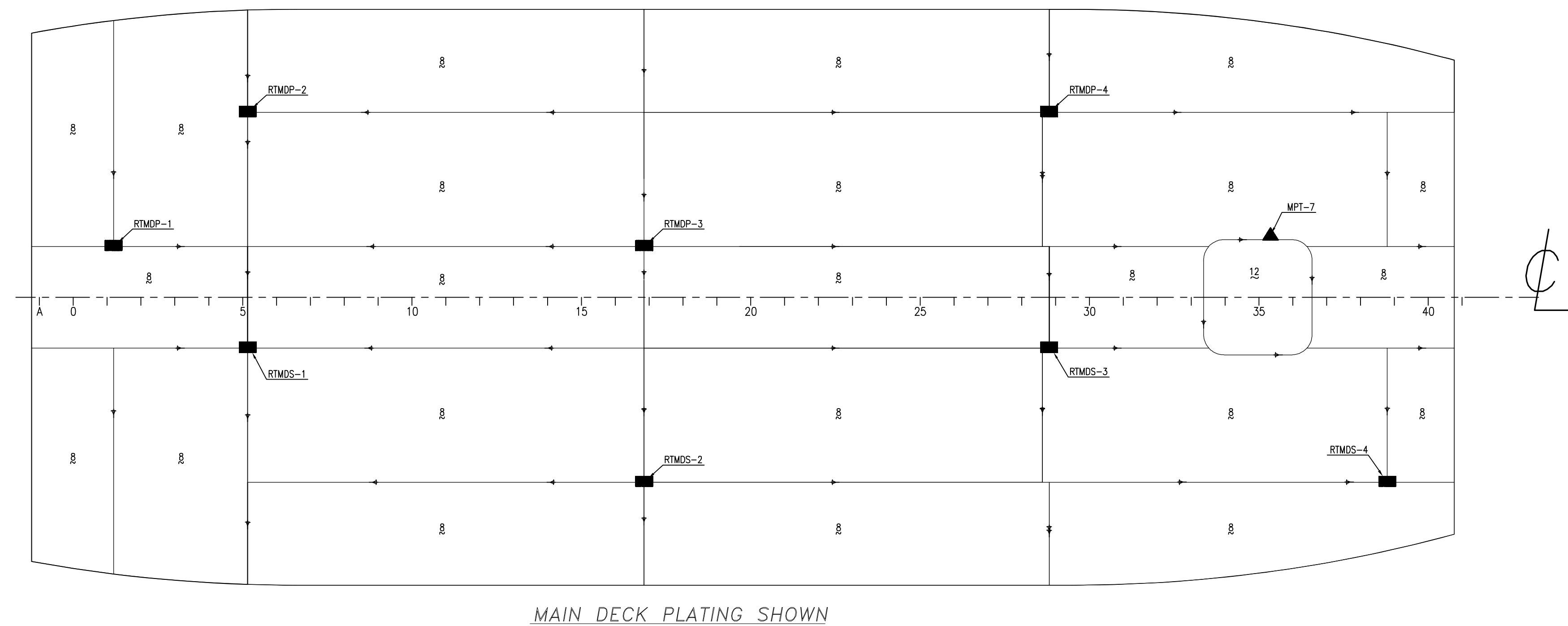
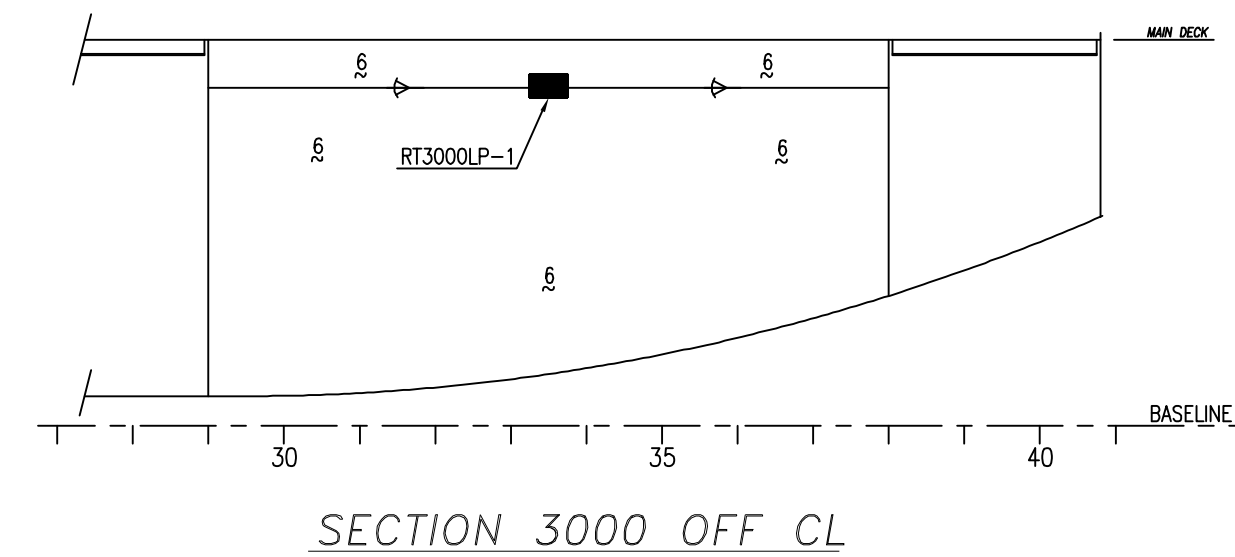
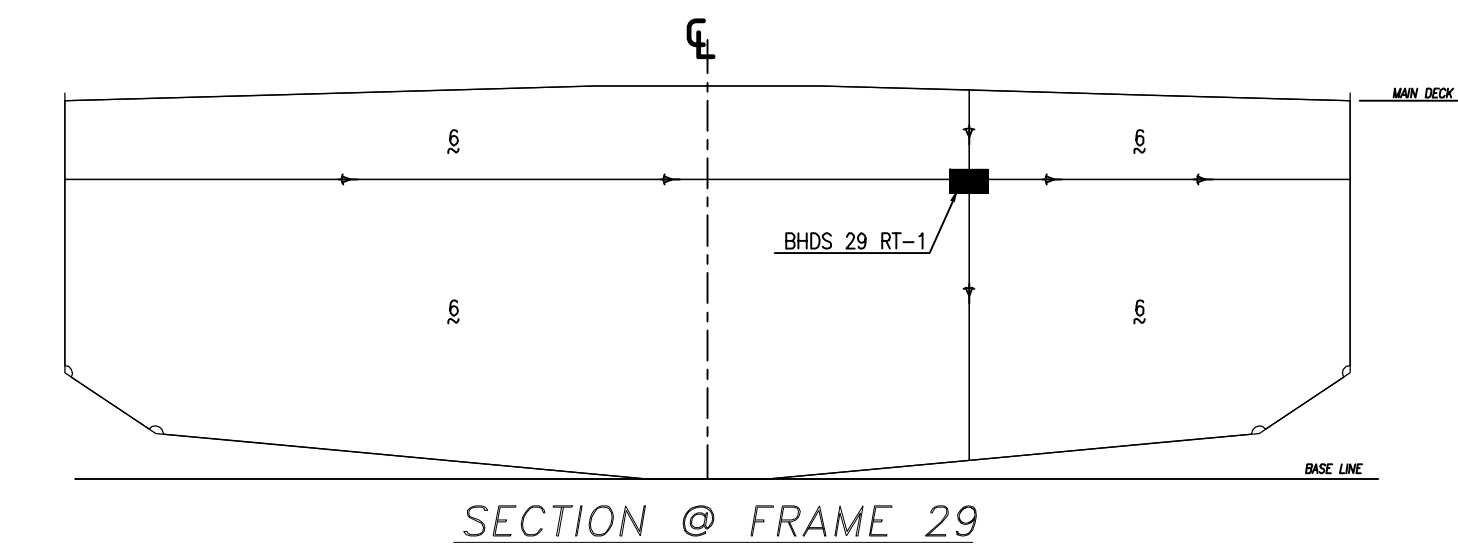
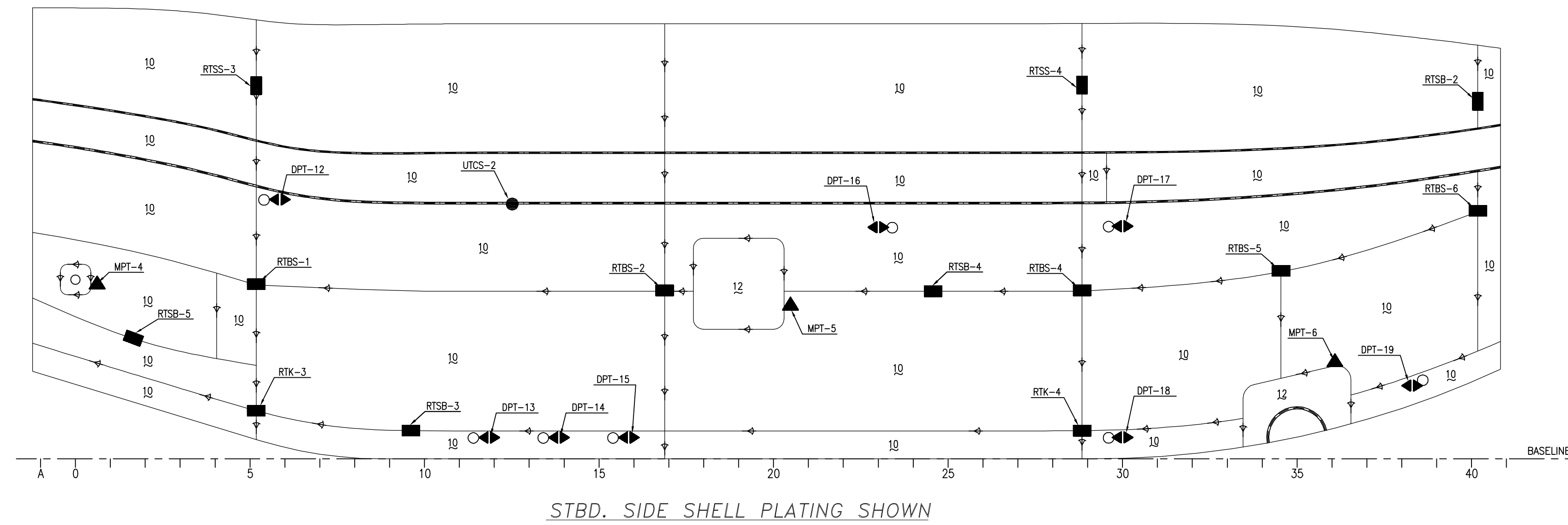
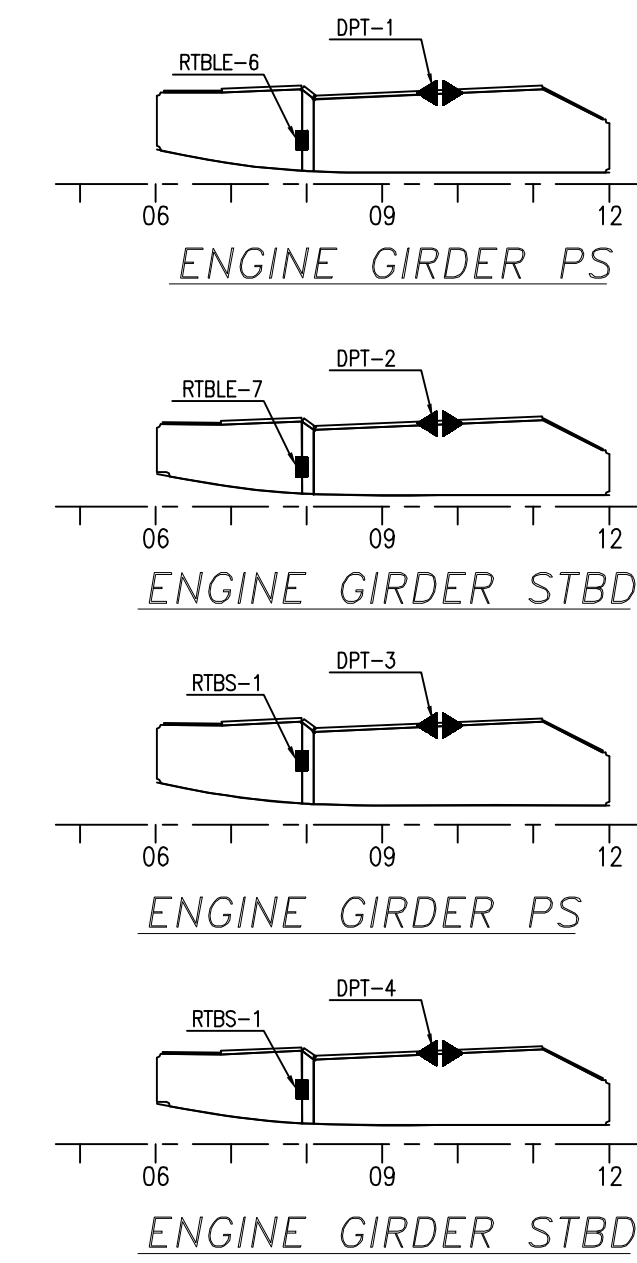
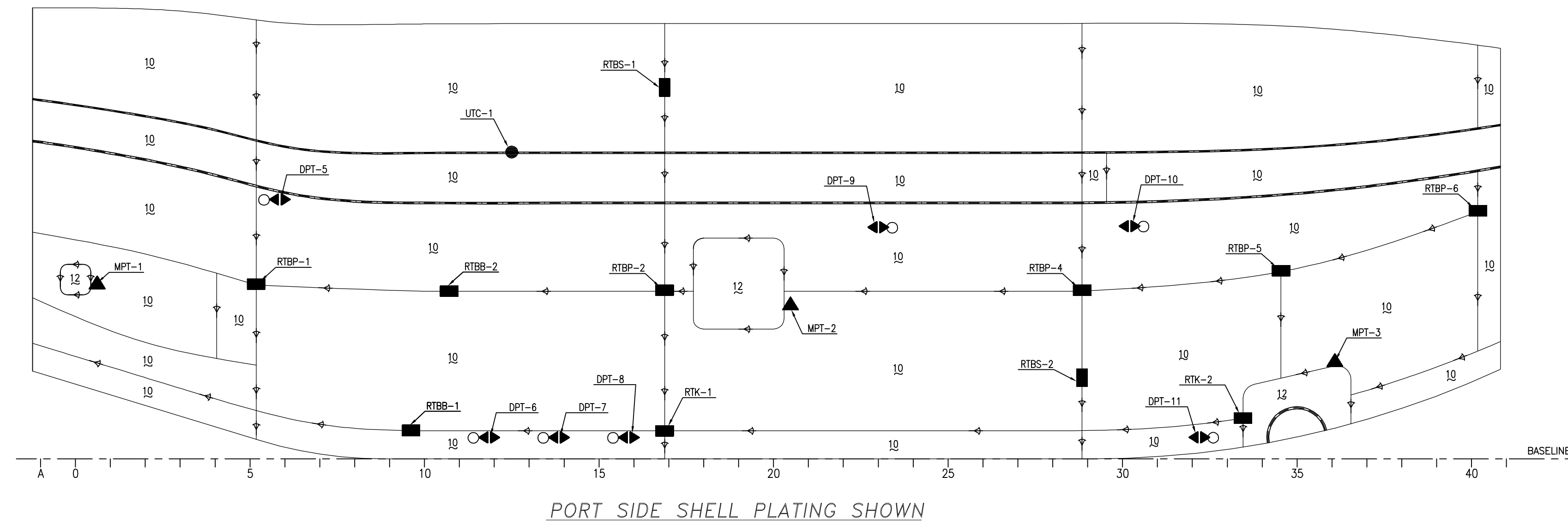
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3	PROJECT				CHECKED BY : MZ	DRG NO : P744A-331-13-R0	

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PROJECT <b>21M CRANE BOAT</b>		
TITLE <b>N.D.E PLAN</b> (HULL NO NB-791) (SHEET 13 OF 31)		

ANNEXURE:3.



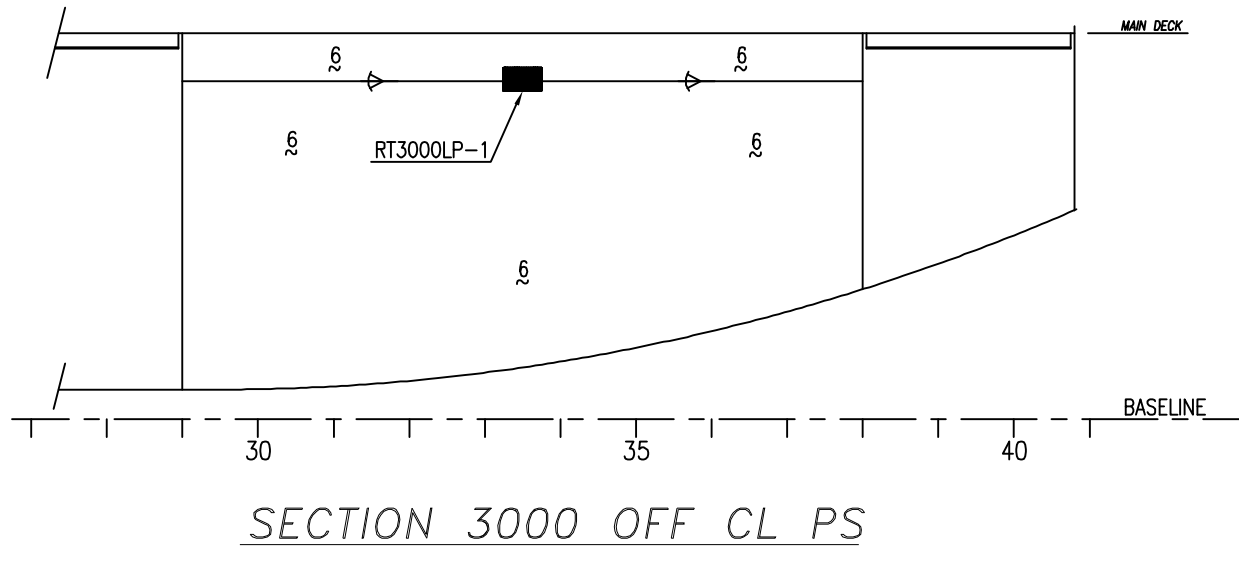
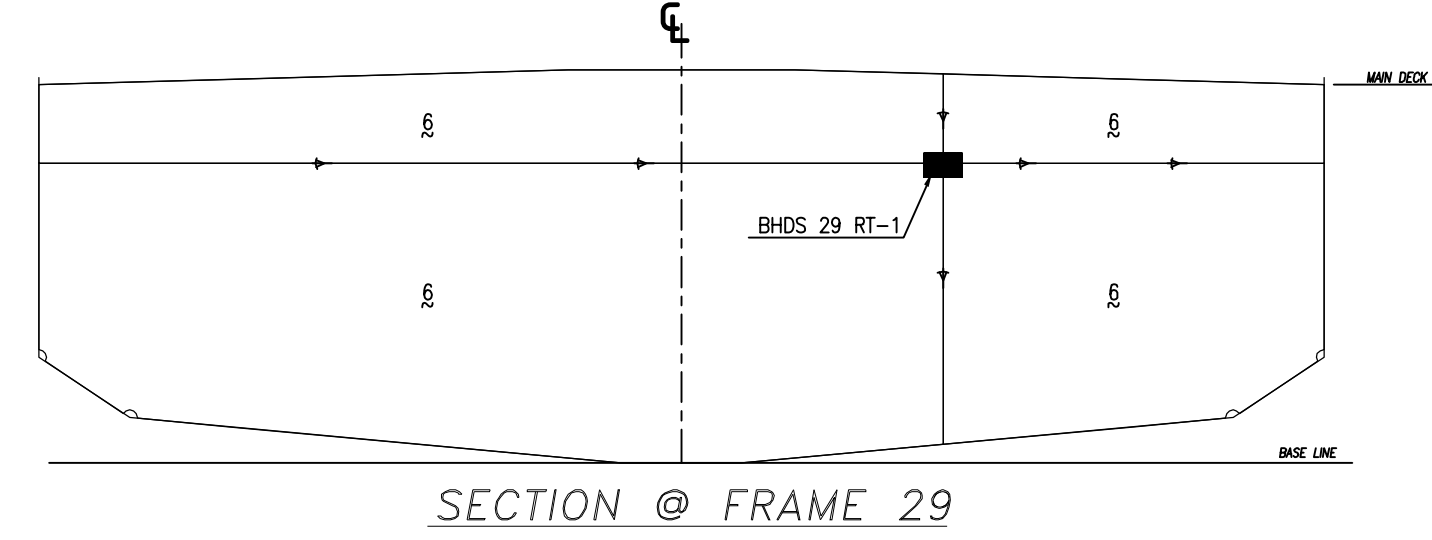
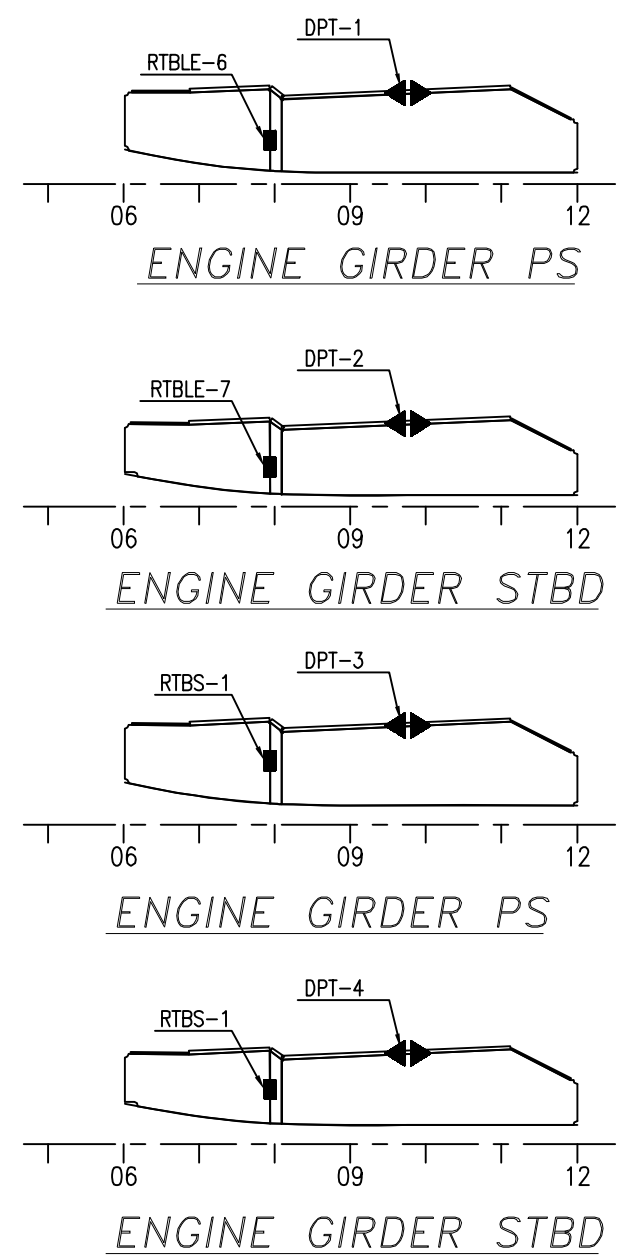
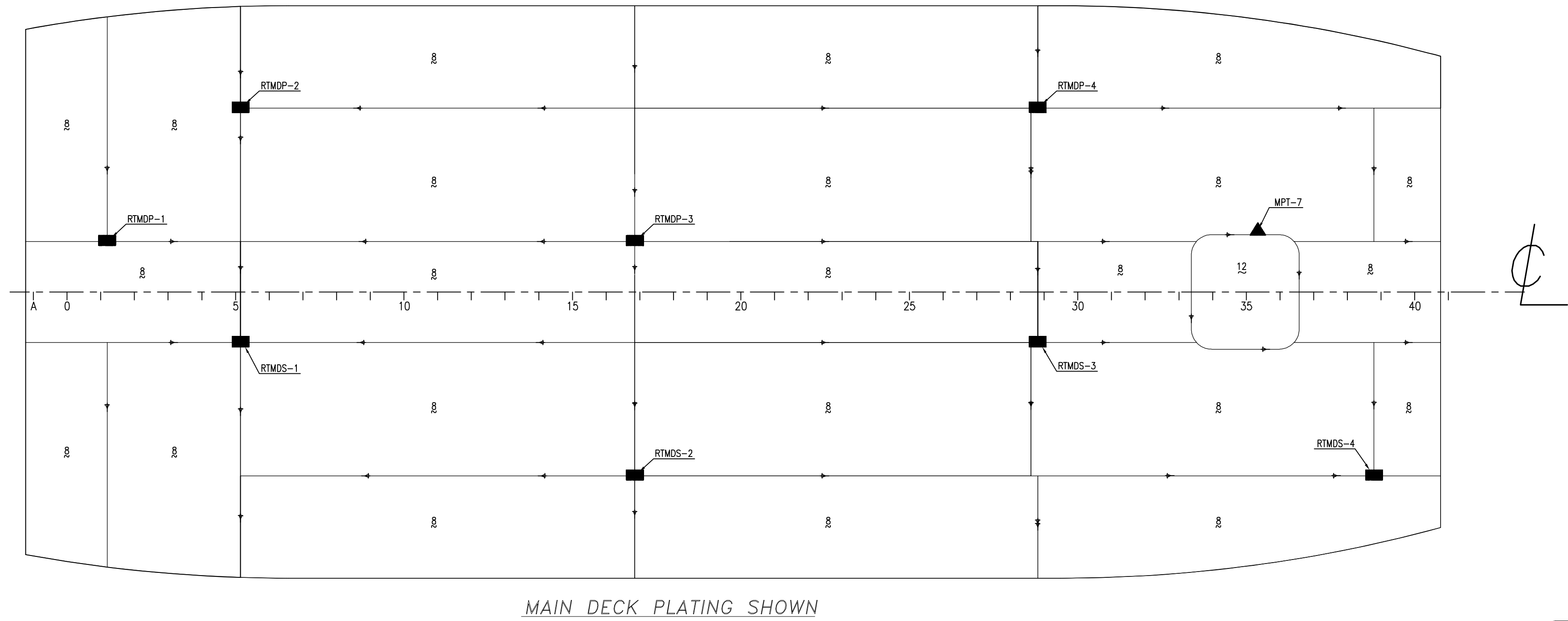
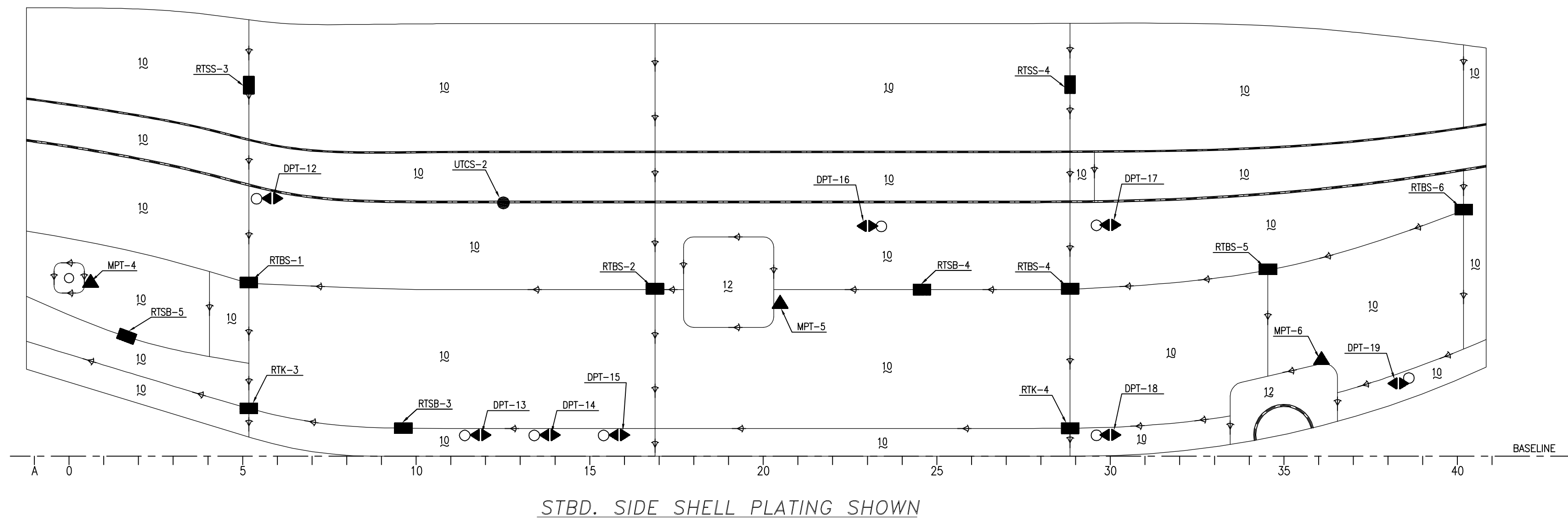
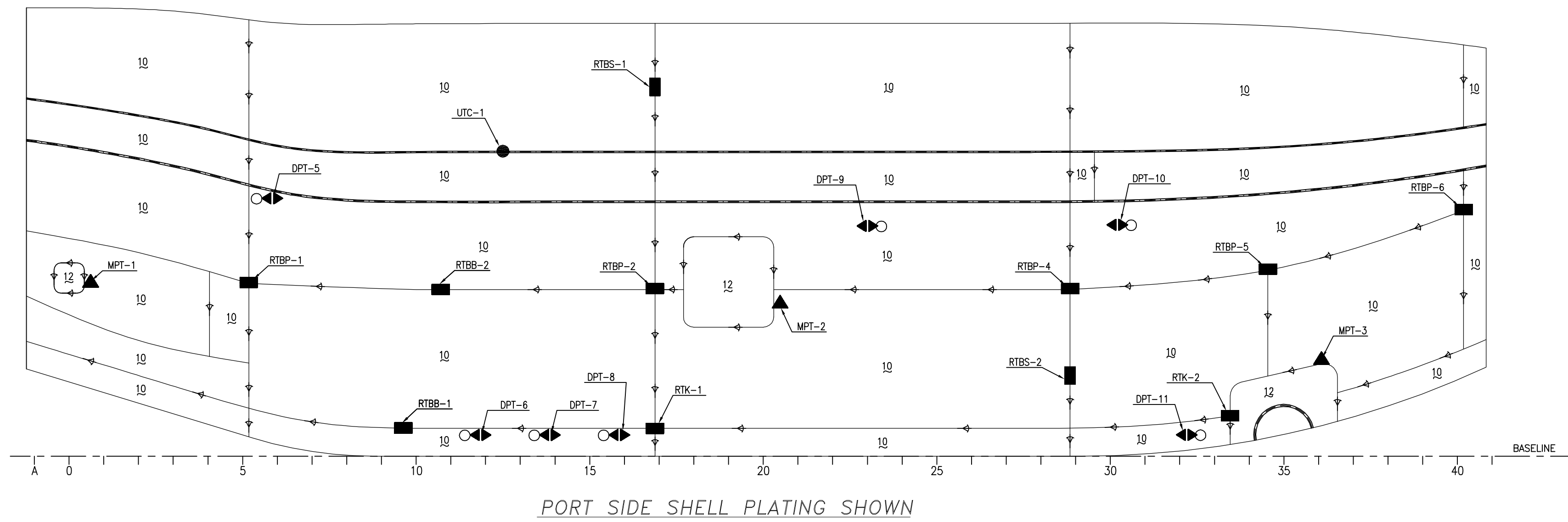
CLASS : Lloyd's Register (LR)  
NOTATION: 100A1 SSC, WORKBOAT, G2

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4	OWNER	CLASS	YARD	APPROVED/REVIEWED	21 SEPTEMBER, 2025	1:50	AL AMIN	A1
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10	OWNER	CLASS	YARD	APPROVED/REVIEWED	21 SEPTEMBER, 2025	1:50	AL AMIN	A1


REV.	MODIFICATION	BY	DATE
1	MODIFICATION	BY	DATE
2	MODIFICATION	BY	DATE
3	MODIFICATION	BY	DATE
4	MODIFICATION	BY	DATE
5	MODIFICATION	BY	DATE
6	MODIFICATION	BY	DATE
7	MODIFICATION	BY	DATE
8	MODIFICATION	BY	DATE
9	MODIFICATION	BY	DATE
10	MODIFICATION	BY	DATE

<b>SST</b>	<b>SST MARINE SOLUTIONS LTD</b>
PRINTERS BUILDING, 13TH FLOOR (NORTH SIDE), 9, RAJUK AVENUE, MOTUWHEEL COMMERCIAL AREA, DHAKA-1000, BANGLADESH.	Email: sstmarines@gmail.com
OWNER	Bangladesh Inland Water Transport Authority
BUILDER	<b>KHULNA SHIPYARD LIMITED</b> Bangladesh Navy Khulna-9201 Bangladesh
HULL NO.	NB-794
PROJECT	21M CRANE BOAT
TITLE	N.D.E PLAN (HULL NO NB-794) (SHEET 14 OF 31)






CLASS : Lloyd's Register (LR)  
NOTATION: 100A1 SSC, WORKBOAT, G2

REV.	MODIFICATION		BY	DATE
<div><div></div><div><b>SST MARINE SOLUTIONS LTD</b> PRINTERS BUILDING, 13TH FLOOR (NORTH SIDE), 5 RAJUK AVENUE, MOTUWHEEL COMMERCIAL AREA, DHAKA-1000, BANGLADESH. Email:sstmartines@gmail.com</div></div>				
OWNER Bangladesh Inland Water Transport Authority				
BUILDER <b>KHULNA SHIPYARD LIMITED</b> Bangladesh Navy Khulna-9201 Bangladesh			<div> HULL NO. <b>NB-795</b></div>	
PROJECT 21M CRANE BOAT				
TITLE N.D.E PLAN (HULL NO NB-795) (SHEET 15 OF 31)				
DATE : 21 SEPTEMBER, 2025		SCALE : 1:50 A1		
DRAWN BY : AL AMIN		PROJECT NO : P-744A		
CHECKED BY : MZ		DRG NO : P744A-331-15-R0		

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OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN <div>(SHEET 16 OF 31)</div>	
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com	DRAWN : AL AMIN		SCALE : N.T.S (A4 SHT)
	CHECKED : MZ		PROJECT NO : P-744A
	DATE : 21 SEPTEMBER, 2025		DRG NO : P744A-331-16-R0

ANNEX 4: NDE PLAN SUMMARY OF HULL NO NB-790 & 791 AND 794 & 795.

ANNEX 4: KEEL NDT (RT&UT) PLAN SUMMARY HULL NO NB-790

SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTK-1	10mm to 10mm	KEEL SEAM JOINT-1 FROM CL,PS	FR-16 TO FR-17	X-JOINT			
2	RTK-2	10mm to 12mm	KEEL SEAM JOINT-1 FROM CL,PS	FR-33 TO FR-34	T-JOINT			
3	RTK-3	10mm to 10mm	KEEL SEAM JOINT-1 FROM CL,STBD	FR-05 TO FR-06	X-JOINT			
4	RTK-4	10mm to 10mm	KEEL SEAM JOINT-1 FROM CL,STBD	FR-28 TO FR-29	X-JOINT			

ANNEX 4: KEEL NDT (RT&UT) PLAN SUMMARY HULL NO NB-791

SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTK-1	10mm to 10mm	KEEL SEAM JOINT-1 FROM CL,PS	FR-16 TO FR-17	X-JOINT			
2	RTK-2	10mm to 12mm	KEEL SEAM JOINT-1 FROM CL,PS	FR-33 TO FR-34	T-JOINT			
3	RTK-3	10mm to 10mm	KEEL SEAM JOINT-1 FROM CL,STBD	FR-05 TO FR-06	X-JOINT			
4	RTK-4	10mm to 10mm	KEEL SEAM JOINT-1 FROM CL,STBD	FR-28 TO FR-29	X-JOINT			

ANNEX 4: KEEL NDT (RT&UT) PLAN SUMMARY HULL NO NB-794


SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTK-1	10mm to 10mm	KEEL SEAM JOINT-1 FROM CL,PS	FR-16 TO FR-17	X-JOINT			
2	RTK-2	10mm to 12mm	KEEL SEAM JOINT-1 FROM CL,PS	FR-33 TO FR-34	T-JOINT			
3	RTK-3	10mm to 10mm	KEEL SEAM JOINT-1 FROM CL,STBD	FR-05 TO FR-06	X-JOINT			
4	RTK-4	10mm to 10mm	KEEL SEAM JOINT-1 FROM CL,STBD	FR-28 TO FR-29	X-JOINT			


ANNEX 4: KEEL NDT (RT&UT) PLAN SUMMARY HULL NO NB-795

SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTK-1	10mm to 10mm	KEEL SEAM JOINT-1 FROM CL,PS	FR-16 TO FR-17	X-JOINT			
2	RTK-2	10mm to 12mm	KEEL SEAM JOINT-1 FROM CL,PS	FR-33 TO FR-34	T-JOINT			
3	RTK-3	10mm to 10mm	KEEL SEAM JOINT-1 FROM CL,STBD	FR-05 TO FR-06	X-JOINT			
4	RTK-4	10mm to 10mm	KEEL SEAM JOINT-1 FROM CL,STBD	FR-28 TO FR-29	X-JOINT			

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED

THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS SUPPLIED ON THE UNDERSTANDING THAT THEY ARE THE EXCLUSIVE PROPERTY OF SST MARINE SOLUTIONS LTD. THEY MUST NOT BE USED OR REPRODUCED IN THE WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION.


CLASS : Lloyd's Register (LR)  
NOTATION:  100A1 SSC, WORKBOAT, G2


OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalina-9201 Bangladesh</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN (SHEET 17 OF 31)	
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com	DRAWN : AL AMIN	SCALE : N.T.S (A4 SHT)	
	CHECKED : MZ	PROJECT NO : P-744A	
	DATE : 21 SEPTEMBER, 2025	DRG NO : P744A-331-17-R0	

ANNEX 4: BOTTOM NDT (RT&UT) PLAN SUMMARY HULL NO NB-790								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTBP-1	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-05 TO FR-06	X-JOINT			
2	RTBP-2	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-16 TO FR-17	X-JOINT			
3	RTBP-4	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-28 TO FR-29	X-JOINT			
4	RTBP-5	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-34 TO FR-35	T-JOINT			
5	RTBP-6	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-40 TO FR-41	T-JOINT			
6	RTBS-1	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-05 TO FR-06	X-JOINT			
7	RTBS-2	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-16 TO FR-17	X-JOINT			
8	RTBS-4	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-28 TO FR-29	X-JOINT			
9	RTBS-5	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-34 TO FR-35	T-JOINT			
10	RTBS-6	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-40 TO FR-41	T-JOINT			

ANNEX 4: BOTTOM NDT (RT&UT) PLAN SUMMARY HULL NO NB-791								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTBP-1	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-05 TO FR-06	X-JOINT			
2	RTBP-2	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-16 TO FR-17	X-JOINT			
3	RTBP-4	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-28 TO FR-29	X-JOINT			
4	RTBP-5	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-34 TO FR-35	T-JOINT			
5	RTBP-6	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-40 TO FR-41	T-JOINT			
6	RTBS-1	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-05 TO FR-06	X-JOINT			
7	RTBS-2	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-16 TO FR-17	X-JOINT			
8	RTBS-4	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-28 TO FR-29	X-JOINT			
9	RTBS-5	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-34 TO FR-35	T-JOINT			
10	RTBS-6	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-40 TO FR-41	T-JOINT			

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED
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CLASS : Lloyd's Register (LR)  
NOTATION:  100A1 SSC, WORKBOAT, G2

OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN <div>(SHEET 18 OF 31)</div>	
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIWEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com	DRAWN : AL AMIN		SCALE : N.T.S (A4 SHT)
	CHECKED : MZ		PROJECT NO : P-744A
	DATE : 21 SEPTEMBER, 2025		DRG NO : P744A-331-18-R0


ANNEX 4: BOTTOM NDT (RT&UT) PLAN SUMMARY HULL NO NB-794								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTBP-1	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-05 TO FR-06	X-JOINT			
2	RTBP-2	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-16 TO FR-17	X-JOINT			
3	RTBP-4	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-28 TO FR-29	X-JOINT			
4	RTBP-5	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-34 TO FR-35	T-JOINT			
5	RTBP-6	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-40 TO FR-41	T-JOINT			
6	RTBS-1	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-05 TO FR-06	X-JOINT			
7	RTBS-2	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-16 TO FR-17	X-JOINT			
8	RTBS-4	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-28 TO FR-29	X-JOINT			
9	RTBS-5	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-34 TO FR-35	T-JOINT			
10	RTBS-6	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-40 TO FR-41	T-JOINT			

ANNEX 4: BOTTOM NDT (RT&UT) PLAN SUMMARY HULL NO NB-795								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTBP-1	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-05 TO FR-06	X-JOINT			
2	RTBP-2	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-16 TO FR-17	X-JOINT			
3	RTBP-4	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-28 TO FR-29	X-JOINT			
4	RTBP-5	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-34 TO FR-35	T-JOINT			
5	RTBP-6	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,PS	FR-40 TO FR-41	T-JOINT			
6	RTBS-1	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-05 TO FR-06	X-JOINT			
7	RTBS-2	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-16 TO FR-17	X-JOINT			
8	RTBS-4	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-28 TO FR-29	X-JOINT			
9	RTBS-5	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-34 TO FR-35	T-JOINT			
10	RTBS-6	10mm to 10mm	KEEL SEAM JOINT-3 FROM CL,STBD	FR-40 TO FR-41	T-JOINT			

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED
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CLASS : Lloyd's Register (LR)

NOTATION: 100A1 SSC, WORKBOAT, G2

OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN <div>(SHEET 19 OF 31)</div>	
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com		DRAWN : AL AMIN	SCALE : N.T.S (A4 SHT)
		CHECKED : MZ	PROJECT NO : P-744A
		DATE : 21 SEPTEMBER, 2025	DRG NO : P744A-331-19-R0

ANNEX 4: MAIN DECK NDT (RT&UT) PLAN SUMMARY HULL NO NB-790								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTMDP-1	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,PS	FR-01 TO FR-02	T-JOINT			
2	RTMDP-2	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,PS	FR-05 TO FR-06	T-JOINT			
3	RTMDP-3	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,PS	FR-16 TO FR-17	X-JOINT			
4	RTMDP-4	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,PS	FR-28 TO FR-29	T-JOINT			
5	RTMDS-1	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,STBD	FR-01 TO FR-02	T-JOINT			
6	RTMDS-2	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,STBD	FR-05 TO FR-06	T-JOINT			
7	RTMDS-3	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,STBD	FR-16 TO FR-17	X-JOINT			
8	RTMDS-4	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,STBD	FR-28 TO FR-29	T-JOINT			

ANNEX 4: MAIN DECK NDT (RT&UT) PLAN SUMMARY HULL NO NB-791								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTMDP-1	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,PS	FR-01 TO FR-02	T-JOINT			
2	RTMDP-2	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,PS	FR-05 TO FR-06	T-JOINT			
3	RTMDP-3	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,PS	FR-16 TO FR-17	X-JOINT			
4	RTMDP-4	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,PS	FR-28 TO FR-29	T-JOINT			
5	RTMDS-1	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,STBD	FR-01 TO FR-02	T-JOINT			
6	RTMDS-2	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,STBD	FR-05 TO FR-06	T-JOINT			
7	RTMDS-3	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,STBD	FR-16 TO FR-17	X-JOINT			
8	RTMDS-4	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,STBD	FR-28 TO FR-29	T-JOINT			

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED
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CLASS : Lloyd's Register (LR)

NOTATION: 100A1 SSC, WORKBOAT, G2


OWNER :  
Bangladesh Inland Water Transport Authority

BUILDER :  
KHULNA SHIPYARD LIMITED  
Bangladesh Navy  
Khalna-9201  
Bangladesh

HULL No.  
NB 790,791,794  
& 795

PROJECT:  
21M CRANE BOAT

TITLE:  
N.D.E PLAN  
(SHEET 20 OF 31)

SST MARINE SOLUTIONS LTD  
PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE,  
MOTIJHEEL C/A, DHAKA-1000, BANGLADESH.  
Email:sstmarines@gmail.com

DRAWN : AL AMIN

CHECKED : MZ

DATE : 21 SEPTEMBER, 2025

SCALE : N.T.S (A4 SHT)

PROJECT NO : P-744A

DRG NO : P744A-331-20-R0


ANNEX 4: MAIN DECK NDT (RT&UT) PLAN SUMMARY HULL NO NB-794								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTMDP-1	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,PS	FR-01 TO FR-02	T-JOINT			
2	RTMDP-2	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,PS	FR-05 TO FR-06	T-JOINT			
3	RTMDP-3	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,PS	FR-16 TO FR-17	X-JOINT			
4	RTMDP-4	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,PS	FR-28 TO FR-29	T-JOINT			
5	RTMDS-1	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,STBD	FR-01 TO FR-02	T-JOINT			
6	RTMDS-2	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,STBD	FR-05 TO FR-06	T-JOINT			
7	RTMDS-3	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,STBD	FR-16 TO FR-17	X-JOINT			
8	RTMDS-4	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,STBD	FR-28 TO FR-29	T-JOINT			

ANNEX 4: MAIN DECK NDT (RT&UT) PLAN SUMMARY HULL NO NB-795								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTMDP-1	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,PS	FR-01 TO FR-02	T-JOINT			
2	RTMDP-2	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,PS	FR-05 TO FR-06	T-JOINT			
3	RTMDP-3	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,PS	FR-16 TO FR-17	X-JOINT			
4	RTMDP-4	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,PS	FR-28 TO FR-29	T-JOINT			
5	RTMDS-1	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,STBD	FR-01 TO FR-02	T-JOINT			
6	RTMDS-2	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,STBD	FR-05 TO FR-06	T-JOINT			
7	RTMDS-3	8mm to 8mm	M.DECK SEAM JOINT-1 FROM CL,STBD	FR-16 TO FR-17	X-JOINT			
8	RTMDS-4	8mm to 8mm	M.DECK SEAM JOINT-2 FROM CL,STBD	FR-28 TO FR-29	T-JOINT			

REV	OWNER/ CLIENT	CLASS	YARD	APPROVED/ REVIEWED
THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS SUPPLIED ON THE UNDERSTANDING THAT THEY ARE THE EXCLUSIVE PROPERTY OF SST MARINE SOLUTIONS LTD. THEY MUST NOT BE USED OR REPRODUCED IN THE WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION.				

CLASS : Lloyd's Register (LR)

NOTATION: 100A1 SSC, WORKBOAT, G2

OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN <div>(SHEET 21 OF 31)</div>	
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com	DRAWN : AL AMIN		SCALE : N.T.S (A4 SHT)
	CHECKED : MZ		PROJECT NO : P-744A
	DATE : 21 SEPTEMBER, 2025		DRG NO : P744A-331-21-R0

ANNEX 4: TRANSVERSE BHD NDT (RT&UT) PLAN SUMMARY HULL NO NB-790								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REP. NO	RESULT
1	BHDS 29 RT-1	6mm to 6mm	BHD 29 BUTT JOINT-1 FROM CL STBD	BHD-29	X-JOINT			

ANNEX 4: TRANSVERSE BHD NDT (RT&UT) PLAN SUMMARY HULL NO NB-791								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REP. NO	RESULT
1	BHDS 29 RT-1	6mm to 6mm	BHD 29 BUTT JOINT-1 FROM CL STBD	BHD-29	X-JOINT			


ANNEX 4: TRANSVERSE BHD NDT (RT&UT) PLAN SUMMARY HULL NO NB-794								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REP. NO	RESULT
1	BHDS 29 RT-1	6mm to 6mm	BHD 29 BUTT JOINT-1 FROM CL STBD	BHD-29	X-JOINT			

ANNEX 4: TRANSVERSE BHD NDT (RT&UT) PLAN SUMMARY HULL NO NB-795								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REP. NO	RESULT
1	BHDS 29 RT-1	6mm to 6mm	BHD 29 BUTT JOINT-1 FROM CL STBD	BHD-29	X-JOINT			

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED
THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS SUPPLIED ON THE UNDERSTANDING THAT THEY ARE THE EXCLUSIVE PROPERTY OF SST MARINE SOLUTIONS LTD. THEY MUST NOT BE USED OR REPRODUCED IN THE WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION.				

CLASS : Lloyd's Register (LR)

NOTATION: 100A1 SSC, WORKBOAT, G2

OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN <div>(SHEET 22 OF 31)</div>	
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com	DRAWN : AL AMIN		SCALE : N.T.S (A4 SHT)
	CHECKED : MZ		PROJECT NO : P-744A
	DATE : 21 SEPTEMBER, 2025		DRG NO : P744A-331-22-R0

ANNEX 4: LONGITUDINAL SECTION NDT (RT&UT) PLAN SUMMARY HULL NO NB-790								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	UTCP-1	10mm to 25mm	CHAIN BAR JOINT TO CHAIN BAR, SB	FR-12 TO FR-13	SEAM JOINT			
2	UTCS-2	10mm to 25mm	CHAIN BAR JOINT TO CHAIN BAR, SB	FR-12 TO FR-13	SEAM JOINT			
3	RTBL8-3	8mm to 8mm	BOTTOM LONG 250x8+100x8 CL		SEAM JOINT			
4	RTBL4-4	8mm to 8mm	BOTTOM LONG T 250x8+100x8, 2000 CL PS		SEAM JOINT			
5	RTBL7-5	8mm to 8mm	BOTTOM LONG T 250x8+100x8, 2000 CL STBD		SEAM JOINT			
6	RTBL7-6	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. PS	FR-05 TO FR-12	SEAM JOINT			
7	RTBL7-7	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. PS	FR-05 TO FR-12	SEAM JOINT			
8	RTBL7-8	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. STBD	FR-05 TO FR-12	SEAM JOINT			
9	RTBL7-9	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. STBD	FR-05 TO FR-12	SEAM JOINT			
10	RT3000LP-1	6mm to 6mm	BOTTOM LONG BHD 3000 OFF CL	FR-33 TO FR-34	SEAM JOINT			

ANNEX 4: LONGITUDINAL SECTION NDT (RT&UT) PLAN SUMMARY HULL NO NB-791								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	UTCP-1	10mm to 25mm	CHAIN BAR JOINT TO CHAIN BAR, SB	FR-12 TO FR-13	SEAM JOINT			
2	UTCS-2	10mm to 25mm	CHAIN BAR JOINT TO CHAIN BAR, SB	FR-12 TO FR-13	SEAM JOINT			
3	RTBL8-3	8mm to 8mm	BOTTOM LONG 250x8+100x8 CL		SEAM JOINT			
4	RTBL4-4	8mm to 8mm	BOTTOM LONG T 250x8+100x8, 2000 CL PS		SEAM JOINT			
5	RTBL7-5	8mm to 8mm	BOTTOM LONG T 250x8+100x8, 2000 CL STBD		SEAM JOINT			
6	RTBL7-6	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. PS	FR-05 TO FR-12	SEAM JOINT			
7	RTBL7-7	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. PS	FR-05 TO FR-12	SEAM JOINT			
8	RTBL7-8	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. STBD	FR-05 TO FR-12	SEAM JOINT			
9	RTBL7-9	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. STBD	FR-05 TO FR-12	SEAM JOINT			
10	RT3000LP-1	6mm to 6mm	BOTTOM LONG BHD 3000 OFF CL	FR-33 TO FR-34	SEAM JOINT			

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED
THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS SUPPLIED ON THE UNDERSTANDING THAT THEY ARE THE EXCLUSIVE PROPERTY OF SST MARINE SOLUTIONS LTD. THEY MUST NOT BE USED OR REPRODUCED IN THE WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION.				

CLASS : Lloyd's Register (LR)

NOTATION: 100A1 SSC, WORKBOAT, G2




OWNER :  
Bangladesh Inland Water Transport Authority

BUILDER :  
KHULNA SHIPYARD LIMITED  
Bangladesh Navy  
Khalna-9201  
Bangladesh  
Phone : 88-041-723728  
Fax : 88-041-729049  
E-mail : khulna\_shipyard@yahoo.com

HULL No.  
NB 790,791,794  
& 795

PROJECT:  
21M CRANE BOAT

TITLE:  
N.D.E PLAN  
(SHEET 23 OF 31)

SST MARINE SOLUTIONS LTD  
PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE,  
MOTIJHEEL C/A, DHAKA-1000, BANGLADESH.  
Email:sstmarines@gmail.com

DRAWN : AL AMIN

CHECKED : MZ

DATE : 21 SEPTEMBER, 2025

SCALE : N.T.S (A4 SHT)

PROJECT NO : P-744A

DRG NO : P744A-331-23-R0


ANNEX 4: LONGITUDINAL SECTION NDT (RT&UT) PLAN SUMMARY HULL NO NB-794								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	UTCP-1	10mm to 25mm	CHAIN BAR JOINT TO CHAIN BAR, SB	FR-12 TO FR-13	SEAM JOINT			
2	UTCS-2	10mm to 25mm	CHAIN BAR JOINT TO CHAIN BAR, SB	FR-12 TO FR-13	SEAM JOINT			
3	RTBL8-3	8mm to 8mm	BOTTOM LONG 250x8+100x8 CL		SEAM JOINT			
4	RTBL4-4	8mm to 8mm	BOTTOM LONG T 250x8+100x8, 2000 CL PS		SEAM JOINT			
5	RTBL7-5	8mm to 8mm	BOTTOM LONG T 250x8+100x8, 2000 CL STBD		SEAM JOINT			
6	RTBL7-6	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. PS	FR-05 TO FR-12	SEAM JOINT			
7	RTBL7-7	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. PS	FR-05 TO FR-12	SEAM JOINT			
8	RTBL7-8	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. STBD	FR-05 TO FR-12	SEAM JOINT			
9	RTBL7-9	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. STBD	FR-05 TO FR-12	SEAM JOINT			
10	RT3000LP-1	6mm to 6mm	BOTTOM LONG BHD 3000 OFF CL	FR-33 TO FR-34	SEAM JOINT			

ANNEX 4: LONGITUDINAL SECTION NDT (RT&UT) PLAN SUMMARY HULL NO NB-795								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	UTCP-1	10mm to 25mm	CHAIN BAR JOINT TO CHAIN BAR, SB	FR-12 TO FR-13	SEAM JOINT			
2	UTCS-2	10mm to 25mm	CHAIN BAR JOINT TO CHAIN BAR, SB	FR-12 TO FR-13	SEAM JOINT			
3	RTBL8-3	8mm to 8mm	BOTTOM LONG 250x8+100x8 CL		SEAM JOINT			
4	RTBL4-4	8mm to 8mm	BOTTOM LONG T 250x8+100x8, 2000 CL PS		SEAM JOINT			
5	RTBL7-5	8mm to 8mm	BOTTOM LONG T 250x8+100x8, 2000 CL STBD		SEAM JOINT			
6	RTBLE-6	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. PS	FR-05 TO FR-12	SEAM JOINT			
7	RTBLE-7	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. PS	FR-05 TO FR-12	SEAM JOINT			
8	RTBLE-8	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. STBD	FR-05 TO FR-12	SEAM JOINT			
9	RTBLE-9	12mm to 12mm	BOTTOM LONG ENGINE FOUNDATION LONG. STBD	FR-05 TO FR-12	SEAM JOINT			
10	RT3000LP-1	6mm to 6mm	BOTTOM LONG BHD 3000 OFF CL	FR-33 TO FR-34	SEAM JOINT			

REV	OWNER/ CLIENT	CLASS	YARD	APPROVED/ REVIEWED
THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS SUPPLIED ON THE UNDERSTANDING THAT THEY ARE THE EXCLUSIVE PROPERTY OF SST MARINE SOLUTIONS LTD. THEY MUST NOT BE USED OR REPRODUCED IN THE WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION.				

CLASS : Lloyd's Register (LR)

NOTATION: 100A1 SSC, WORKBOAT, G2

OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN <div>(SHEET 24 OF 31)</div>	
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com	DRAWN : AL AMIN		SCALE : N.T.S (A4 SHT)
	CHECKED : MZ		PROJECT NO : P-744A
	DATE : 21 SEPTEMBER, 2025		DRG NO : P744A-331-24-R0

ANNEX 4: SEAM JOINT NDT (RT&UT) PLAN SUMMARY HULL NO NB-790								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTBS-1	10mm to 10mm	SEAM JOINT-1 FROM CL,PS	FR-16 TO FR-17	SEAM JOINT			
2	RTBS-2	10mm to 10mm	SEAM JOINT-2 FROM CL,STBD	FR-28 TO FR-29	SEAM JOINT			
3	RTSS-3	10mm to 10mm	SEAM JOINT-1 FROM CL,STBD	FR-05 TO FR-06	SEAM JOINT			
4	RTSS-4	10mm to 10mm	SEAM JOINT-2 FROM CL,PS	FR-22 TO FR-23	SEAM JOINT			

ANNEX 4: SEAM JOINT NDT (RT&UT) PLAN SUMMARY HULL NO NB-791								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTBS-1	10mm to 10mm	SEAM JOINT-1 FROM CL,PS	FR-16 TO FR-17	SEAM JOINT			
2	RTBS-2	10mm to 10mm	SEAM JOINT-2 FROM CL,STBD	FR-28 TO FR-29	SEAM JOINT			
3	RTSS-3	10mm to 10mm	SEAM JOINT-1 FROM CL,STBD	FR-05 TO FR-06	SEAM JOINT			
4	RTSS-4	10mm to 10mm	SEAM JOINT-2 FROM CL,PS	FR-22 TO FR-23	SEAM JOINT			


ANNEX 4: SEAM JOINT NDT (RT&UT) PLAN SUMMARY HULL NO NB-794								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTBS-1	10mm to 10mm	SEAM JOINT-1 FROM CL,PS	FR-16 TO FR-17	SEAM JOINT			
2	RTBS-2	10mm to 10mm	SEAM JOINT-2 FROM CL,STBD	FR-28 TO FR-29	SEAM JOINT			
3	RTSS-3	10mm to 10mm	SEAM JOINT-1 FROM CL,STBD	FR-05 TO FR-06	SEAM JOINT			
4	RTSS-4	10mm to 10mm	SEAM JOINT-2 FROM CL,PS	FR-22 TO FR-23	SEAM JOINT			

ANNEX 4: SEAM JOINT NDT (RT&UT) PLAN SUMMARY HULL NO NB-795								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTBS-1	10mm to 10mm	SEAM JOINT-1 FROM CL,PS	FR-16 TO FR-17	SEAM JOINT			
2	RTBS-2	10mm to 10mm	SEAM JOINT-2 FROM CL,STBD	FR-28 TO FR-29	SEAM JOINT			
3	RTSS-3	10mm to 10mm	SEAM JOINT-1 FROM CL,STBD	FR-05 TO FR-06	SEAM JOINT			
4	RTSS-4	10mm to 10mm	SEAM JOINT-2 FROM CL,PS	FR-22 TO FR-23	SEAM JOINT			

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED
THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS SUPPLIED ON THE UNDERSTANDING THAT THEY ARE THE EXCLUSIVE PROPERTY OF SST MARINE SOLUTIONS LTD. THEY MUST NOT BE USED OR REPRODUCED IN THE WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION.				

CLASS : Lloyd's Register (LR)

NOTATION: 100A1 SSC, WORKBOAT, G2

OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN <div>(SHEET 25 OF 31)</div>	
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com	DRAWN : AL AMIN		SCALE : N.T.S (A4 SHT)
	CHECKED : MZ		PROJECT NO : P-744A
	DATE : 21 SEPTEMBER, 2025		DRG NO : P744A-331-25-R0

ANNEX 4: SEAM JOINT NDT (RT&UT) PLAN SUMMARY HULL NO NB-790								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTBB-1	10mm to 10mm	BETWEENSEAM JOINT-1&2 FROM CL,PS	FR-11 TO FR-12	SEAM JOINT			
2	RTBB-2	10mm to 10mm	BETWEENSEAM JOINT-2&3 FROM CL,PS	FR-10 TO FR-11	SEAM JOINT			
3	RTSB-3	10mm to 10mm	BETWEENSEAM JOINT-1&2 FROM CL,STBD	FR-11 TO FR-12	SEAM JOINT			
4	RTSB-4	10mm to 10mm	BETWEENSEAM JOINT-2&3 FROM CL,STBD	FR-24 TO FR-25	SEAM JOINT			
5	RTSB-5	10mm to 10mm	BETWEENSEAM JOINT-1&2 FROM CL,STBD	FR-01 TO FR-02	SEAM JOINT			


ANNEX 4: SEAM JOINT NDT (RT&UT) PLAN SUMMARY HULL NO NB-791								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTBB-1	10mm to 10mm	BETWEENSEAM JOINT-1&2 FROM CL,PS	FR-11 TO FR-12	SEAM JOINT			
2	RTBB-2	10mm to 10mm	BETWEENSEAM JOINT-2&3 FROM CL,PS	FR-10 TO FR-11	SEAM JOINT			
3	RTSB-3	10mm to 10mm	BETWEENSEAM JOINT-1&2 FROM CL,STBD	FR-11 TO FR-12	SEAM JOINT			
4	RTSB-4	10mm to 10mm	BETWEENSEAM JOINT-2&3 FROM CL,STBD	FR-24 TO FR-25	SEAM JOINT			
5	RTSB-5	10mm to 10mm	BETWEENSEAM JOINT-1&2 FROM CL,STBD	FR-01 TO FR-02	SEAM JOINT			


ANNEX 4: SEAM JOINT NDT (RT&UT) PLAN SUMMARY HULL NO NB-794								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTBB-1	10mm to 10mm	BETWEENSEAM JOINT-1&2 FROM CL,PS	FR-11 TO FR-12	SEAM JOINT			
2	RTBB-2	10mm to 10mm	BETWEENSEAM JOINT-2&3 FROM CL,PS	FR-10 TO FR-11	SEAM JOINT			
3	RTSB-3	10mm to 10mm	BETWEENSEAM JOINT-1&2 FROM CL,STBD	FR-11 TO FR-12	SEAM JOINT			
4	RTSB-4	10mm to 10mm	BETWEENSEAM JOINT-2&3 FROM CL,STBD	FR-24 TO FR-25	SEAM JOINT			
5	RTSB-5	10mm to 10mm	BETWEENSEAM JOINT-1&2 FROM CL,STBD	FR-01 TO FR-02	SEAM JOINT			

ANNEX 4: SEAM JOINT NDT (RT&UT) PLAN SUMMARY HULL NO NB-795								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	RTBB-1	10mm to 10mm	BETWEENSEAM JOINT-1&2 FROM CL,PS	FR-11 TO FR-12	SEAM JOINT			
2	RTBB-2	10mm to 10mm	BETWEENSEAM JOINT-2&3 FROM CL,PS	FR-10 TO FR-11	SEAM JOINT			
3	RTSB-3	10mm to 10mm	BETWEENSEAM JOINT-1&2 FROM CL,STBD	FR-11 TO FR-12	SEAM JOINT			
4	RTSB-4	10mm to 10mm	BETWEENSEAM JOINT-2&3 FROM CL,STBD	FR-24 TO FR-25	SEAM JOINT			
5	RTSB-5	10mm to 10mm	BETWEENSEAM JOINT-1&2 FROM CL,STBD	FR-01 TO FR-02	SEAM JOINT			

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED
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CLASS : Lloyd's Register (LR)

NOTATION:  100A1 SSC, WORKBOAT, G2

OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN <div>(SHEET 26 OF 31)</div>	
<div> SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com</div>		DRAWN : AL AMIN	SCALE : N.T.S (A4 SHT)
		CHECKED : MZ	PROJECT NO : P-744A
		DATE : 21 SEPTEMBER, 2025	DRG NO : P744A-331-26-R0

ANNEX 4: ALL INSERT PLATS NDT (MPT) PLAN SUMMARY HULL NO NB-790

SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	MPT-1	12mm to 10mm	BOTTOM	FR-A TO FR-01	SEAM JOINT			
2	MPT-2	12mm to 10mm	BOTTOM	FR-17 TO FR-21	SEAM JOINT			
3	MPT-3	12mm to 10mm	BOTTOM	FR-34 TO FR-37	SEAM JOINT			
4	MPT-4	12mm to 10mm	BOTTOM	FR-A TO FR-01	SEAM JOINT			
5	MPT-5	12mm to 10mm	BOTTOM	FR-17 TO FR-21	SEAM JOINT			
6	MPT-6	12mm to 10mm	BOTTOM	FR-34 TO FR-37	SEAM JOINT			
7	MPT-7	12mm to 08mm	MAIN DECK	FR-33 TO FR-37	SEAM JOINT			


ANNEX 4: ALL INSERT PLATS NDT (MPT) PLAN SUMMARY HULL NO NB-791

SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	MPT-1	12mm to 10mm	BOTTOM	FR-A TO FR-01	SEAM JOINT			
2	MPT-2	12mm to 10mm	BOTTOM	FR-17 TO FR-21	SEAM JOINT			
3	MPT-3	12mm to 10mm	BOTTOM	FR-34 TO FR-37	SEAM JOINT			
4	MPT-4	12mm to 10mm	BOTTOM	FR-A TO FR-01	SEAM JOINT			
5	MPT-5	12mm to 10mm	BOTTOM	FR-17 TO FR-21	SEAM JOINT			
6	MPT-6	12mm to 10mm	BOTTOM	FR-34 TO FR-37	SEAM JOINT			
7	MPT-7	12mm to 08mm	MAIN DECK	FR-33 TO FR-37	SEAM JOINT			

REV	OWNER/ CLIENT	CLASS	YARD	APPROVED/ REVIEWED
THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS SUPPLIED ON THE UNDERSTANDING THAT THEY ARE THE EXCLUSIVE PROPERTY OF SST MARINE SOLUTIONS LTD. THEY MUST NOT BE USED OR REPRODUCED IN THE WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION.				

CLASS : Lloyd's Register (LR)

NOTATION: 100A1 SSC, WORKBOAT, G2


OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN <div>(SHEET 27 OF 31)</div>	
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com	DRAWN : AL AMIN		SCALE : N.T.S (A4 SHT)
	CHECKED : MZ		PROJECT NO : P-744A
	DATE : 21 SEPTEMBER, 2025		DRG NO : P744A-331-27-R0


ANNEX 4: ALL INSERT PLATS NDT (MPT) PLAN SUMMARY HULL NO NB-794								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	MPT-1	12mm to 10mm	BOTTOM	FR-A TO FR-01	SEAM JOINT			
2	MPT-2	12mm to 10mm	BOTTOM	FR-17 TO FR-21	SEAM JOINT			
3	MPT-3	12mm to 10mm	BOTTOM	FR-34 TO FR-37	SEAM JOINT			
4	MPT-4	12mm to 10mm	BOTTOM	FR-A TO FR-01	SEAM JOINT			
5	MPT-5	12mm to 10mm	BOTTOM	FR-17 TO FR-21	SEAM JOINT			
6	MPT-6	12mm to 10mm	BOTTOM	FR-34 TO FR-37	SEAM JOINT			
7	MPT-7	12mm to 08mm	MAIN DECK	FR-33 TO FR-37	SEAM JOINT			

ANNEX 4: ALL INSERT PLATS NDT (MPT) PLAN SUMMARY HULL NO NB-795								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	MPT-1	12mm to 10mm	BOTTOM	FR-A TO FR-01	SEAM JOINT			
2	MPT-2	12mm to 10mm	BOTTOM	FR-17 TO FR-21	SEAM JOINT			
3	MPT-3	12mm to 10mm	BOTTOM	FR-34 TO FR-37	SEAM JOINT			
4	MPT-4	12mm to 10mm	BOTTOM	FR-A TO FR-01	SEAM JOINT			
5	MPT-5	12mm to 10mm	BOTTOM	FR-17 TO FR-21	SEAM JOINT			
6	MPT-6	12mm to 10mm	BOTTOM	FR-34 TO FR-37	SEAM JOINT			
7	MPT-7	12mm to 08mm	MAIN DECK	FR-33 TO FR-37	SEAM JOINT			

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED
THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS SUPPLIED ON THE UNDERSTANDING THAT THEY ARE THE EXCLUSIVE PROPERTY OF SST MARINE SOLUTIONS LTD. THEY MUST NOT BE USED OR REPRODUCED IN THE WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION.				

CLASS : Lloyd's Register (LR)

NOTATION:  100A1 SSC, WORKBOAT, G2


OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN <div>(SHEET 28 OF 31)</div>	
<div> SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com</div>		DRAWN : AL AMIN	SCALE : N.T.S (A4 SHT)
		CHECKED : MZ	PROJECT NO : P-744A
		DATE : 21 SEPTEMBER, 2025	DRG NO : P744A-331-28-R0

ANNEX 4: ALL DRAIN PLUG NDT (DPT) PLAN SUMMARY HULL NO NB-790								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	DPT-1	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
2	DPT-2	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
3	DPT-3	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
4	DPT-4	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
5	DPT-5	DRAIN PLUG	BOTTOM	FR-05 TO FR-06				
6	DPT-6	DRAIN PLUG	BOTTOM	FR-11 TO FR-12				
7	DPT-7	DRAIN PLUG	BOTTOM	FR-13 TO FR-14				
8	DPT-8	DRAIN PLUG	BOTTOM	FR-15 TO FR-16				
9	DPT-9	DRAIN PLUG	BOTTOM	FR-23 TO FR-24				
10	DPT-10	DRAIN PLUG	BOTTOM	FR-30 TO FR-31				
11	DPT-11	DRAIN PLUG	BOTTOM	FR-32 TO FR-33				
12	DPT-12	DRAIN PLUG	BOTTOM	FR-05 TO FR-06				
13	DPT-13	DRAIN PLUG	BOTTOM	FR-11 TO FR-12				
14	DPT-14	DRAIN PLUG	BOTTOM	FR-13 TO FR-14				
15	DPT-15	DRAIN PLUG	BOTTOM	FR-15 TO FR-16				
16	DPT-16	DRAIN PLUG	BOTTOM	FR-23 TO FR-24				
17	DPT-17	DRAIN PLUG	BOTTOM	FR-29 TO FR-30				
18	DPT-18	DRAIN PLUG	BOTTOM	FR-29 TO FR-30				
19	DPT-19	DRAIN PLUG	BOTTOM	FR-38 TO FR-39				

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED
THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS SUPPLIED ON THE UNDERSTANDING THAT THEY ARE THE EXCLUSIVE PROPERTY OF SST MARINE SOLUTIONS LTD. THEY MUST NOT BE USED OR REPRODUCED IN THE WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION.				

CLASS : Lloyd's Register (LR)

NOTATION: 100A1 SSC, WORKBOAT, G2


OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT		
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small> <small>Phone : 88-041-720728 Fax : 88-041-720404 E mail : khulna_shipyards.com</small>		HULL No. NB 790,791,794 & 795		
 <b>SST MARINE SOLUTIONS LTD</b> PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com		TITLE: N.D.E PLAN (SHEET 29 OF 31)		
		DRAWN : AL AMIN		SCALE : N.T.S (A4 SHT)
		CHECKED : MZ		PROJECT NO : P-744A
		DATE : 21 SEPTEMBER, 2025		DRG NO : P744A-331-29-R0

ANNEX 4: ALL DRAIN PLUG NDT (DPT) PLAN SUMMARY HULL NO NB-791								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	DPT-1	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
2	DPT-2	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
3	DPT-3	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
4	DPT-4	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
5	DPT-5	DRAIN PLUG	BOTTOM	FR-05 TO FR-06				
6	DPT-6	DRAIN PLUG	BOTTOM	FR-11 TO FR-12				
7	DPT-7	DRAIN PLUG	BOTTOM	FR-13 TO FR-14				
8	DPT-8	DRAIN PLUG	BOTTOM	FR-15 TO FR-16				
9	DPT-9	DRAIN PLUG	BOTTOM	FR-23 TO FR-24				
10	DPT-10	DRAIN PLUG	BOTTOM	FR-30 TO FR-31				
11	DPT-11	DRAIN PLUG	BOTTOM	FR-32 TO FR-33				
12	DPT-12	DRAIN PLUG	BOTTOM	FR-05 TO FR-06				
13	DPT-13	DRAIN PLUG	BOTTOM	FR-11 TO FR-12				
14	DPT-14	DRAIN PLUG	BOTTOM	FR-13 TO FR-14				
15	DPT-15	DRAIN PLUG	BOTTOM	FR-15 TO FR-16				
16	DPT-16	DRAIN PLUG	BOTTOM	FR-23 TO FR-24				
17	DPT-17	DRAIN PLUG	BOTTOM	FR-29 TO FR-30				
18	DPT-18	DRAIN PLUG	BOTTOM	FR-29 TO FR-30				
19	DPT-19	DRAIN PLUG	BOTTOM	FR-38 TO FR-39				

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED
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CLASS : Lloyd's Register (LR)

NOTATION: 100A1 SSC, WORKBOAT, G2

OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN <div>(SHEET 30 OF 31)</div>	
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com	DRAWN : AL AMIN		SCALE : N.T.S (A4 SHT)
	CHECKED : MZ		PROJECT NO : P-744A
	DATE : 21 SEPTEMBER, 2025		DRG NO : P744A-331-30-R0


ANNEX 4: ALL DRAIN PLUG NDT (DPT) PLAN SUMMARY HULL NO NB-794								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	DPT-1	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
2	DPT-2	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
3	DPT-3	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
4	DPT-4	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
5	DPT-5	DRAIN PLUG	BOTTOM	FR-05 TO FR-06				
6	DPT-6	DRAIN PLUG	BOTTOM	FR-11 TO FR-12				
7	DPT-7	DRAIN PLUG	BOTTOM	FR-13 TO FR-14				
8	DPT-8	DRAIN PLUG	BOTTOM	FR-15 TO FR-16				
9	DPT-9	DRAIN PLUG	BOTTOM	FR-23 TO FR-24				
10	DPT-10	DRAIN PLUG	BOTTOM	FR-30 TO FR-31				
11	DPT-11	DRAIN PLUG	BOTTOM	FR-32 TO FR-33				
12	DPT-12	DRAIN PLUG	BOTTOM	FR-05 TO FR-06				
13	DPT-13	DRAIN PLUG	BOTTOM	FR-11 TO FR-12				
14	DPT-14	DRAIN PLUG	BOTTOM	FR-13 TO FR-14				
15	DPT-15	DRAIN PLUG	BOTTOM	FR-15 TO FR-16				
16	DPT-16	DRAIN PLUG	BOTTOM	FR-23 TO FR-24				
17	DPT-17	DRAIN PLUG	BOTTOM	FR-29 TO FR-30				
18	DPT-18	DRAIN PLUG	BOTTOM	FR-29 TO FR-30				
19	DPT-19	DRAIN PLUG	BOTTOM	FR-38 TO FR-39				

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED
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CLASS : Lloyd's Register (LR)

NOTATION: 100A1 SSC, WORKBOAT, G2



OWNER : Bangladesh Inland Water Transport Authority		PROJECT: 21M CRANE BOAT	
BUILDER : KHULNA SHIPYARD LIMITED <small>Bangladesh Navy Khalna-9201 Bangladesh Phone : 88-041-720728 Fax : 88-041-720404 E mail : khulna_shipyards@yahoo.com</small>	HULL No. NB 790,791,794 & 795	TITLE: N.D.E PLAN (SHEET 31 OF 31)	
 SST MARINE SOLUTIONS LTD PRINTERS BUILDING(13TH FLOOR), 5 RAJUK AVENUE, MOTIJHEEL C/A, DHAKA-1000, BANGLADESH. Email:sstmarines@gmail.com	DRAWN : AL AMIN		SCALE : N.T.S (A4 SHT)
	CHECKED : MZ		PROJECT NO : P-744A
	DATE : 21 SEPTEMBER, 2025		DRG NO : P744A-331-31-R0

ANNEX 4: ALL DRAIN PLUG NDT (DPT) PLAN SUMMARY HULL NO NB-795								
SL	JOINT ID	JOINT THICKNESS	LOCATION	FRAME NO	JOINT TYPE	DATE	REPORT NO	RESULT
1	DPT-1	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
2	DPT-2	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
3	DPT-3	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
4	DPT-4	ENGINE GIRDER FLG	ENGINE GIRDER	FR-08 TO FR-12				
5	DPT-5	DRAIN PLUG	BOTTOM	FR-05 TO FR-06				
6	DPT-6	DRAIN PLUG	BOTTOM	FR-11 TO FR-12				
7	DPT-7	DRAIN PLUG	BOTTOM	FR-13 TO FR-14				
8	DPT-8	DRAIN PLUG	BOTTOM	FR-15 TO FR-16				
9	DPT-9	DRAIN PLUG	BOTTOM	FR-23 TO FR-24				
10	DPT-10	DRAIN PLUG	BOTTOM	FR-30 TO FR-31				
11	DPT-11	DRAIN PLUG	BOTTOM	FR-32 TO FR-33				
12	DPT-12	DRAIN PLUG	BOTTOM	FR-05 TO FR-06				
13	DPT-13	DRAIN PLUG	BOTTOM	FR-11 TO FR-12				
14	DPT-14	DRAIN PLUG	BOTTOM	FR-13 TO FR-14				
15	DPT-15	DRAIN PLUG	BOTTOM	FR-15 TO FR-16				
16	DPT-16	DRAIN PLUG	BOTTOM	FR-23 TO FR-24				
17	DPT-17	DRAIN PLUG	BOTTOM	FR-29 TO FR-30				
18	DPT-18	DRAIN PLUG	BOTTOM	FR-29 TO FR-30				
19	DPT-19	DRAIN PLUG	BOTTOM	FR-38 TO FR-39				

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED
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CLASS : Lloyd's Register (LR)  
NOTATION: 100A1 SSC, WORKBOAT, G2