

ACTIVITY: To Construct the Stern Section of the STEM Class Ship – Mega Block 1.

NOTES:

- Ensure optimal utilization of all materials to reduce waste.
- Ensure all cutting surfaces are protected when cutting materials with the use of a cutting board.

MATERIAL REQUIREMENTS:

Sharpie Clear Ruler Exacto Knife Cutting Board Foam Board Black Plastic Sheets Scissors Glue Gun Canada Flag

DEFINITIONS AND ACRONYMS:

Definitions:

Bulkhead - A dividing wall or barrier between compartments in a ship Deck – A structure approximately horizontal, extending across a ship Longitudinal – Situated along the length of the ship Port - The left side of the ship Shell - The outer most structure of a ship Starboard – The right side of the ship Stern - The back most part of the ship Transverse - Situated across the width of the ship

Acronyms:

DWG - Drawing FWD - Forward LKG FWD - Looking Forward LKG DOWN – Looking Down LKG PORT – Looking Port PS – Port Side STBD – Starboard TYP - Typical, meaning the same on both sides



STEPS:

1. Stern - Transverse Bulkhead

1.1 Using Attachment 1 (DWG No: A01-STERN PACKAGE-001) measure, mark-up and cut out section of Foam Board using an Exacto Knife to the exact measurements stipulated on the drawing.

2. Stern – Longitudinal Bulkhead

2.1Using Attachment 2 (DWG No: A01-STERN PACKAGE-002) measure, mark-up and cut out section of Foam Board using an Exacto Knife to the exact measurements stipulated on the drawing.

3. Stern – Deck

3.1Using Attachment 3 (DWG No: A01-STERN PACKAGE-003) measure, mark-up and cut out section of Foam Board using an Exacto Knife to the exact measurements stipulated on the drawing.

4. Stern - Shell

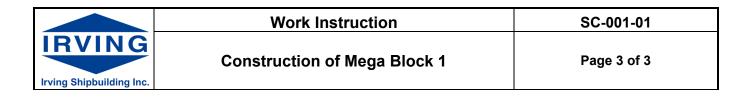
4.1Using Attachment 4 (DWG No: A01-STERN PACKAGE-004) follow the 'NOTES' section to mark-up, cut and fold Black Plastic Paper using Scissors to the exact measurements stipulated on the drawing.

5. Stern – Assembly

- 5.1Using Attachment 5 (DWG No: A01-STERN PACKAGE-005) follow the 'NOTES' section to assemble Transverse Bulkhead, Longitudinal Bulkhead, Deck & Shell to form Mega Block 1.
- 5.2Use glue gun to secure sections.

6 Mast Assembly

- 6.1Using Attachment 6 (DWG No: A01-STERN PACKAGE-006) measure, mark-up and cut Black Plastic Paper using Scissors to the exact measurements stipulated on the drawing.
- 6.2 Follow the 'NOTES' section to create the circular section of the Mast.
- 6.3 Assemble as per drawing and use glue gun to secure.
- 6.4 Install Flag as per drawing.



ATTACHMENTS:

- 1 DWG No: A01-STERN PACKAGE-001 Stern Transverse Bulkhead Mega Block 1
- 2 DWG No: A01-STERN PACKAGE-002 Stern Longitudinal Bulkhead Mega Block 1
- 3 DWG No: A01-STERN PACKAGE-003 Stern Deck Mega Block 1
- 4 DWG No: A01-STERN PACKAGE-004 Stern Shell Mega Block 1
- 5 DWG No: A01-STERN PACKAGE-005 Stern Stern Assembly Mega Block 1
- 6 DWG No: A01-STERN PACKAGE-006 Mast Assembly



ACTIVITY: To Construct Midship Section of a STEM Class Ship – Mega Block 2.

NOTES:

- Ensure optimal utilization of all materials to reduce waste.
- Ensure all cutting surfaces are protected when cutting materials with the use of a cutting board.
- Take note of the quantity required within the bill of materials section of the drawing attachments.

MATERIAL REQUIREMENTS:

Sharpie Clear Ruler Exacto Knife Cutting Board Foam Board Black Plastic Sheets Scissors Glue Gun

DEFINITIONS AND ACRONYMS:

Definitions:

Bulkhead - A dividing wall or barrier between compartments in a ship Deck – A structure approximately horizontal, extending across a ship Longitudinal – Situated along the length of the ship Port - The left side of the ship Shell - The outer most structure of a ship Starboard – The right side of the ship Stern - The back most part of the ship Transverse - situated across the width of the ship

Acronyms:

DWG - Drawing FWD - Forward LKG FWD - Looking Forward LKG DOWN – Looking Down LKG PORT – Looking Port PS – Port Side STBD – Starboard TYP - Typical, meaning the same on both sides



STEPS:

1. Midship – Transverse Bulkhead

- 1.1 Using Attachment 1 (DWG No: A01-MIDSHIP PACKAGE-001) measure, mark-up and cut out section of Foam Board using an Exacto Knife to the exact measurements stipulated on the drawing.
- 1.2 Repeat step 1.1 to create a second Transverse Bulkhead section.

2. Midship – Longitudinal Bulkhead

2.1 Using Attachment 2 (DWG No: A01-MIDSHIP PACKAGE-002) measure, mark-up and cut out section of Foam Board using an Exacto Knife to the exact measurements stipulated on the drawing.

3. Midship – Deck

3.1Using Attachment 3 (DWG No: A01-MIDSHIP PACKAGE-003) measure, mark-up and cut out section of Foam Board using an Exacto Knife to the exact measurements stipulated on the drawing.

4. Midship - Shell

4.1Using Attachment 4 (DWG No: A01-MIDSHIP PACKAGE-004) measure, mark-up and cut out section of Black Plastic Paper using Scissors, to the exact measurements stipulated on the drawing.

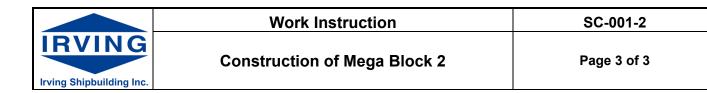
4.2 Measure, mark-up and fold section of Black Plastic Paper to exact measurements stipulated on the drawing to form the shape indicated.

5. Midship - Assembly

- 5.2Using Attachment 5 (DWG No: A01-MIDSHIP PACKAGE-005) follow the 'NOTES' section to assemble Transverse Bulkhead, Longitudinal Bulkhead, Deck & Shell to form Mega Block 2.
- 5.3Use glue gun to secure sections.

6 Superstructure Assembly

- 6.1 Using Attachment 6 (DWG No: A01-MIDSHIP PACKAGE-006) measure, mark-up and cut Black Plastic Paper using Scissors to the exact measurements stipulated on the drawing.
- 6.2 Follow the 'NOTES' section to form the structure indicated on the drawing.
- 6.3 Use glue gun to secure.



ATTACHMENTS:

- 1 DWG No: A01-MIDSHIP PACKAGE-001 Midship Transverse Bulkhead Mega Block 2
- 2 DWG No: A01-MIDSHIP PACKAGE-002 Midship Longitudinal Bulkhead Mega Block 2
- 3 DWG No: A01-MIDSHIP PACKAGE-003 Midship Deck Mega Block 2
- 4 DWG No: A01-MIDSHIP PACKAGE-004 Midship Shell Mega Block 2
- 5 DWG No: A01-MIDSHIP PACKAGE-005 Midship Midship Assembly Mega Block 2
- 6 DWG No: A01-MIDSHIP PACKAGE-006 Superstructure Assembly



ACTIVITY: To Construct Bow Section of a STEM Class Ship – Mega Block 3.

NOTES:

- Ensure optimal utilization of all materials to reduce waste.
- Ensure all cutting surfaces are protected when cutting materials with the use of a cutting board.

MATERIAL REQUIREMENTS:

Sharpie
Clear Ruler
Exacto Knife
Cutting Board
Foam Board
Black Plastic Sheets
Scissors
Glue Gun

DEFINITIONS AND ACRONYMS:

Definitions:

Bow - The forward most part of the ship Bulkhead - A dividing wall or barrier between compartments in a ship Curvature - Being curved or the degree to which something is curved Deck – A structure approximately horizontal, extending across a ship Longitudinal – Situated along the length of the ship Port - The left side of the ship Shell - The outer most structure of a ship Starboard – The right side of the ship Stern - The back most part of the ship Transverse - Situated across the width of the ship

Acronyms:

DWG - Drawing FWD - Forward LKG FWD - Looking Forward LKG DOWN – Looking Down LKG PORT – Looking Port PS – Port Side STBD – Starboard TYP - Typical, meaning the same on both sides



STEPS:

1. Bow – Transverse Bulkhead

1.1 Using Attachment 1 (DWG No: A01-BOW PACKAGE-001) measure, markup and cut out section of Foam Board using an Exacto Knife to the exact measurements stipulated on the drawing.

2. Bow – Longitudinal Bulkhead

2.1Using Attachment 2 (DWG No: A01-BOW PACKAGE-002) measure, markup and cut out section of Foam Board using an Exacto Knife to the exact measurements stipulated on the drawing.

3. Bow – Deck

3.1 Using Attachment 3 (DWG No: A01-BOW PACKAGE-003) measure, markup and cut out section of Foam Board using an Exacto Knife to the exact measurements stipulated on the drawing.

4. Bow - Shell

4.1Using Attachment 4 (DWG No: A01-BOW PACKAGE-004) follow the 'NOTES' section to mark-up, fold and cut Black Plastic Paper using Scissors to the exact measurements stipulated on the drawing.
4.2 Use Glue Gun to secure sections.

5. Bow - Assembly

- 5.1Using Attachment 5 (DWG No: A01-BOW PACKAGE-005) assemble Transverse Bulkhead, Longitudinal Bulkhead, Deck & Shell to form Mega Block 3.
- 5.2 Use Glue Gun to secure sections.

ATTACHMENTS:

- 1 DWG No: A01-BOW PACKAGE-001 Bow Transverse Bulkhead Mega Block 3
- 2 DWG No: A01-BOW PACKAGE-002 Bow Longitudinal Bulkhead Mega Block 3
- 3 DWG No: A01-BOW PACKAGE-003 Bow Deck Mega Block 3
- 4 DWG No: A01-BOW PACKAGE-004 Bow Shell Mega Block 3
- 5 DWG No: A01-BOW PACKAGE-005 Bow Bow Assembly Mega Block 3



ACTIVITY: Final Assembly of the STEM Class Ship for the Royal Canadian Navy.

NOTES: Following Assembly ship will be launched.

MATERIAL REQUIREMENTS:

Clear Ruler Glue Gun Duct Tape Clothes Pins/Safety Pins

DEFINITIONS AND ACRONYMS:

Definitions:

Port - The left side of the ship Super Structure: The parts of a Ship other than Mast, built above its Hull and Main Deck Shell - The outer most structure of a ship Mast – A long pole that rises vertically from a ship

Acronyms:

DWG - Drawing LKG DOWN – Looking Down LKG PORT – Looking Port FWD – Forward

STEPS:

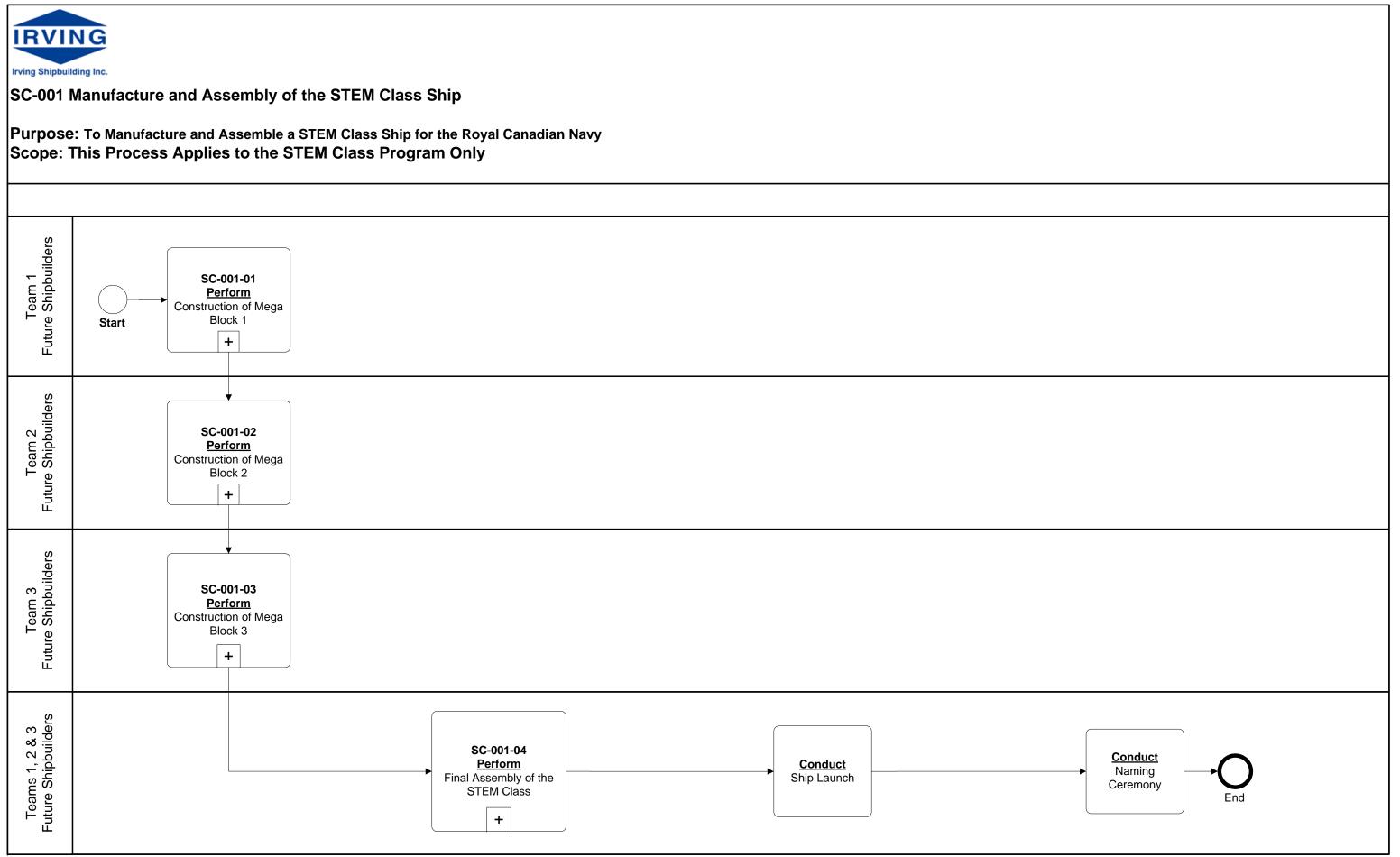
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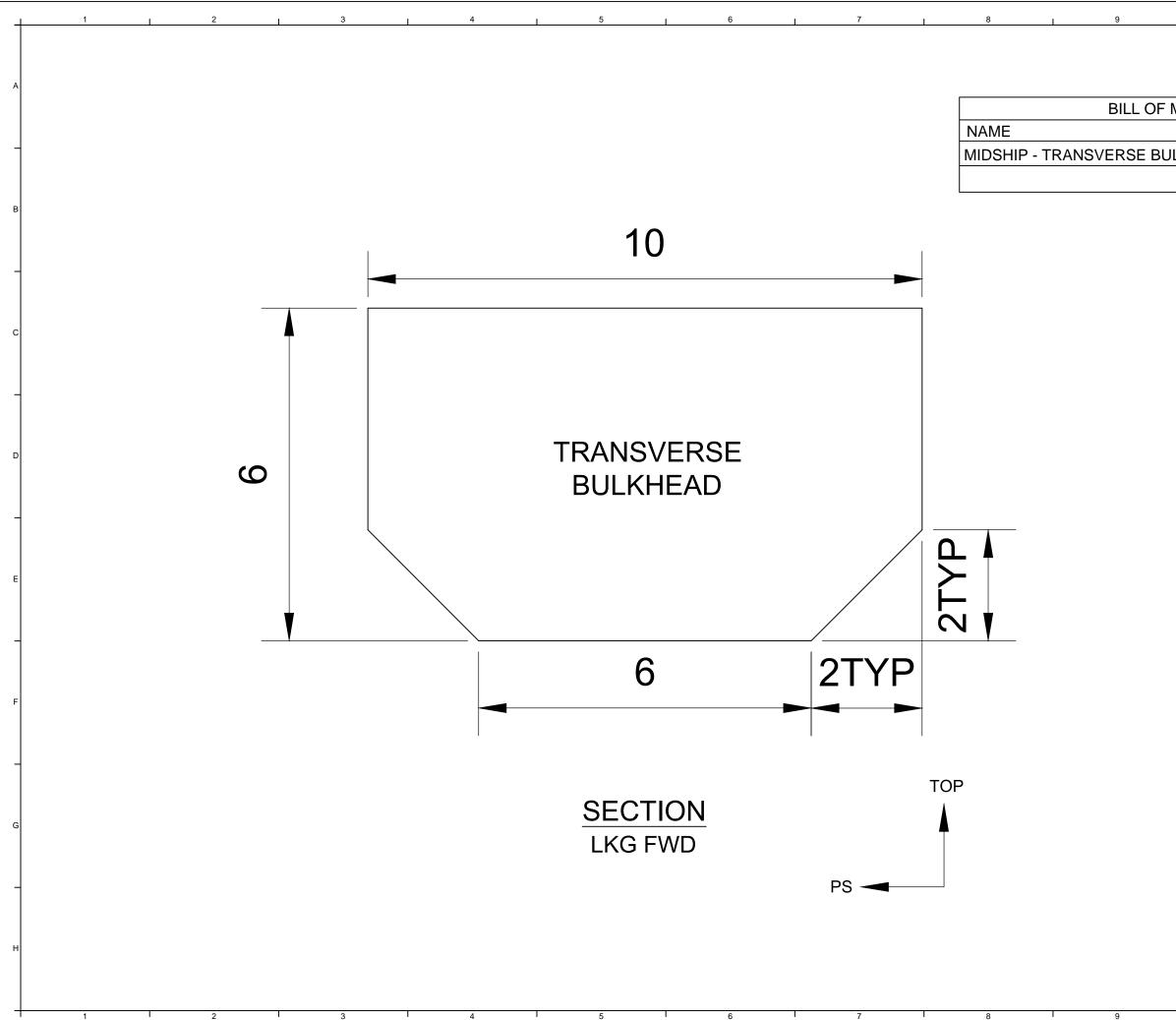
- 1.1Using Attachment 1 (A01-MEGA BLOCK PACKAGE-001) follow the 'NOTES' section to assemble STEM Class Ship 1.
- 1.2 Use Glue Gun to secure sections.
- 1.3 Use Duct Tape to seal edges.

ATTACHMENTS:

1 - DWG No: A01-MEGA BLOCK PACKAGE-001 Mega Block Join – Ship 1



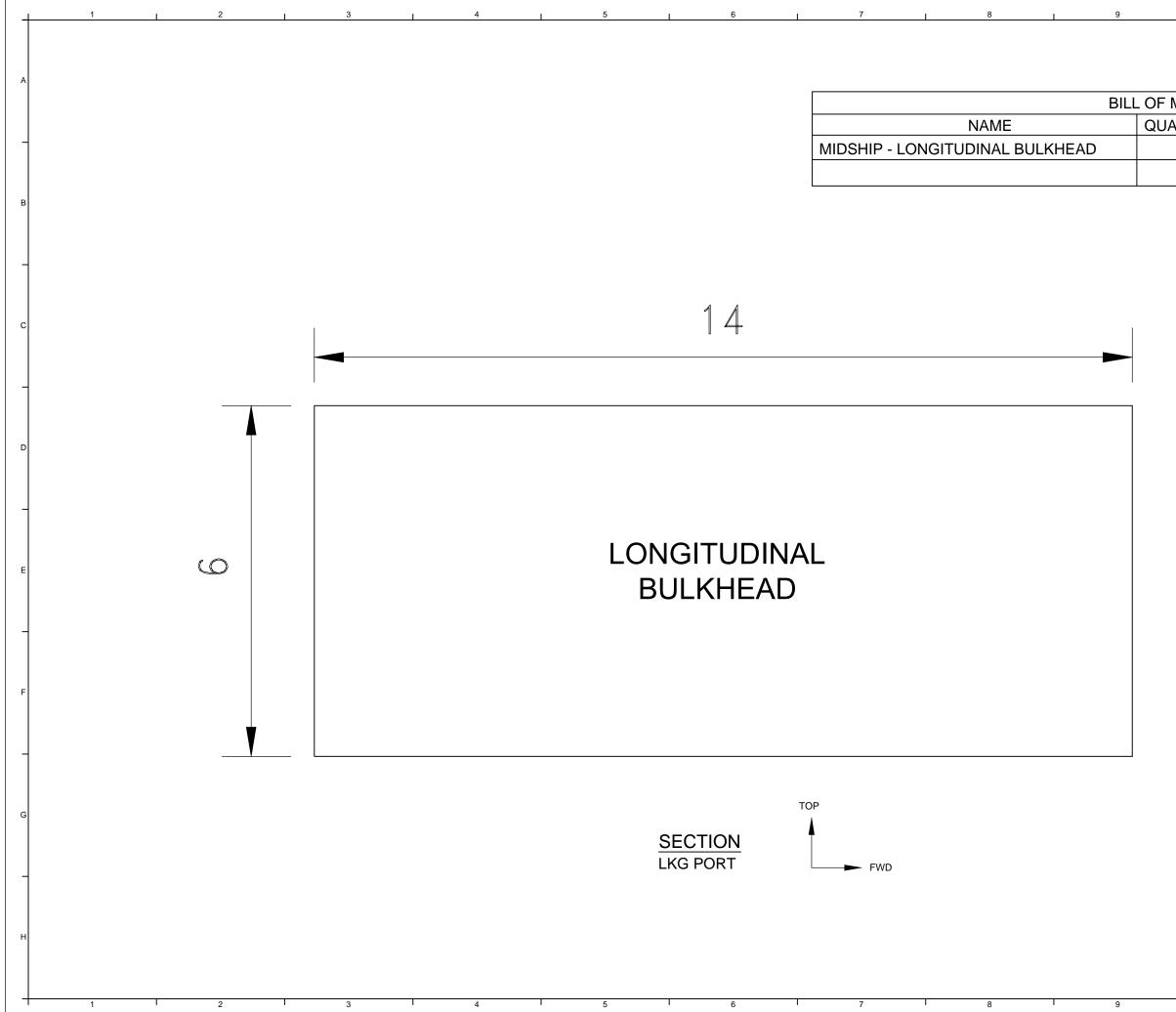




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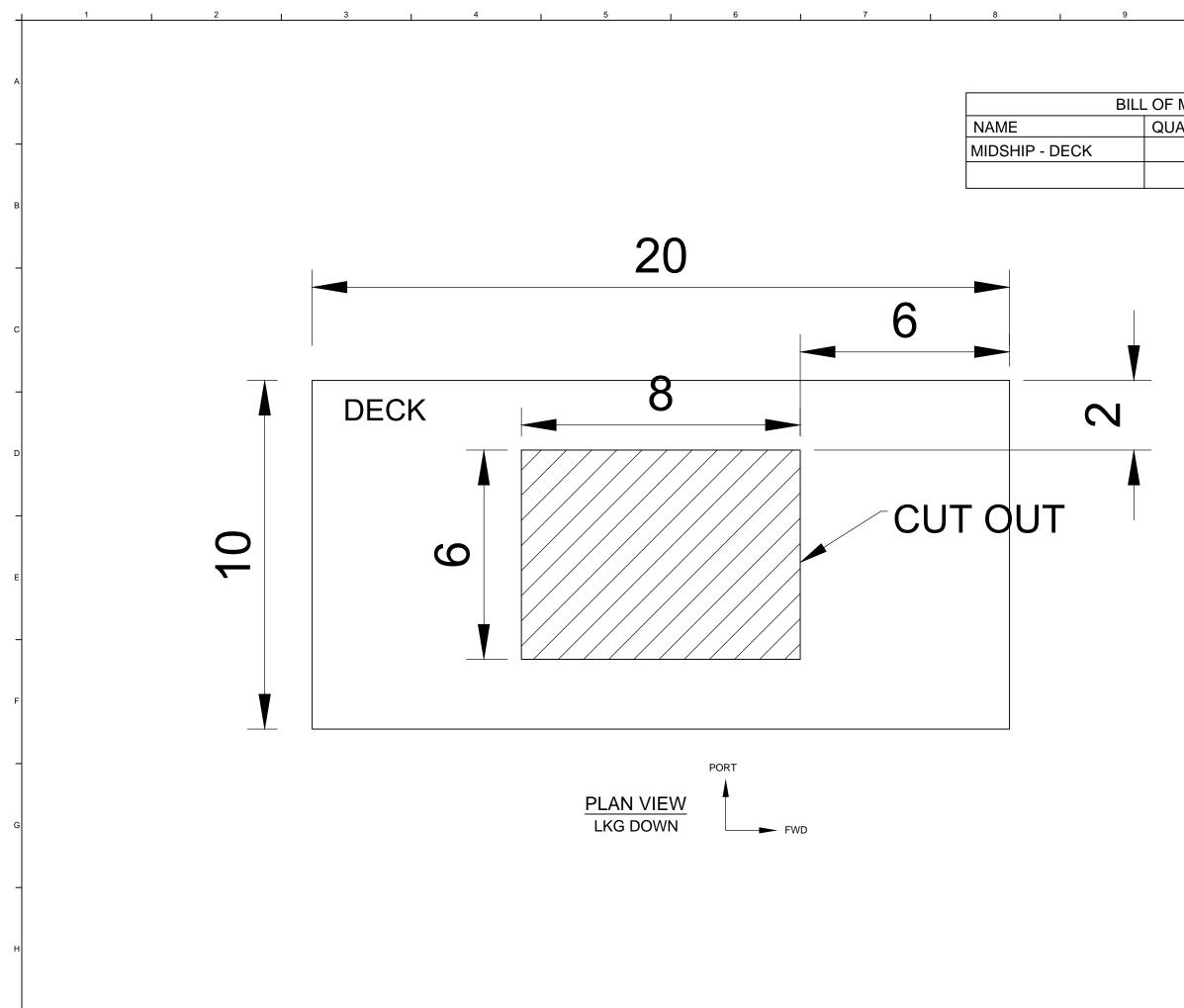


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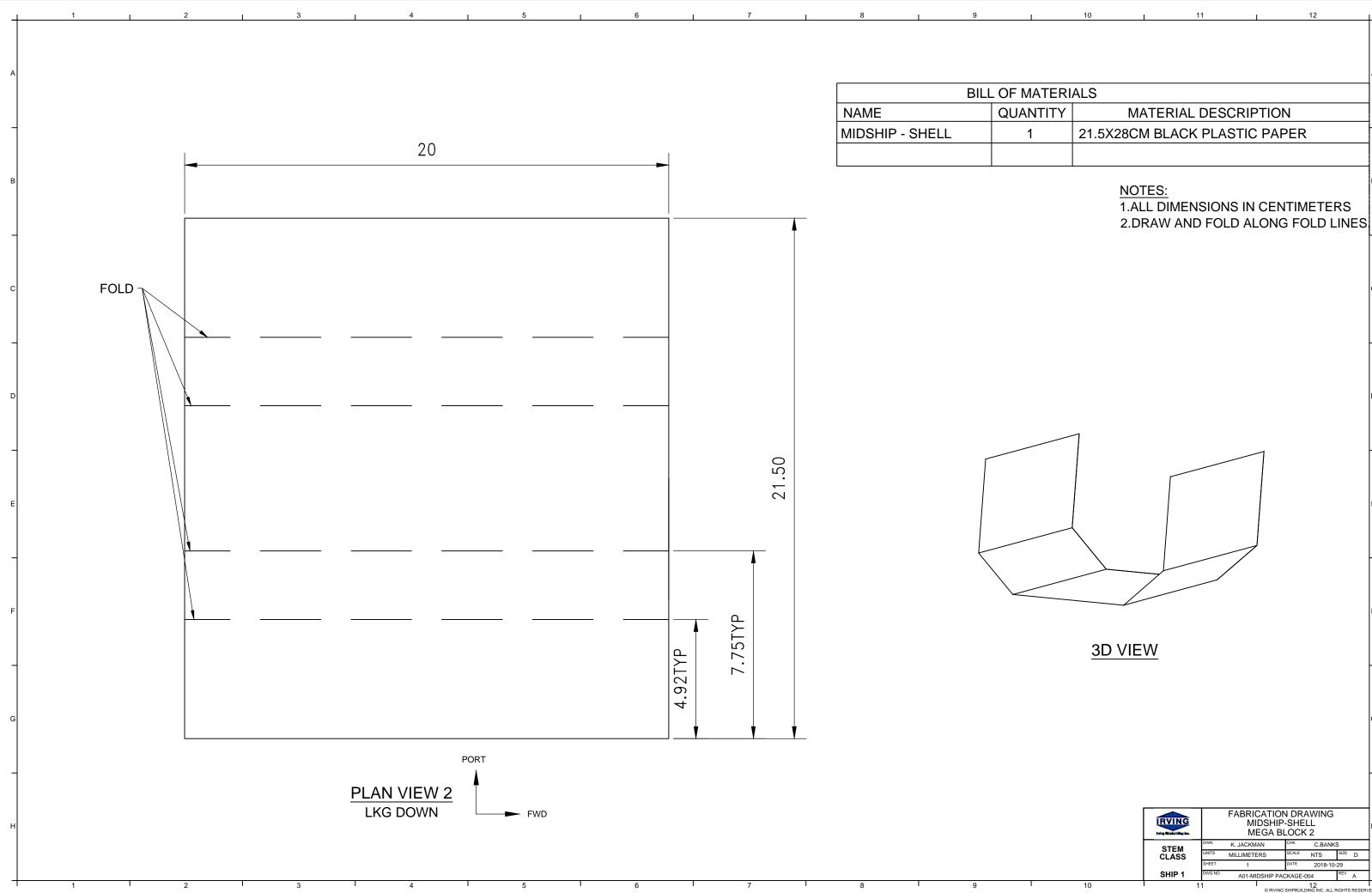
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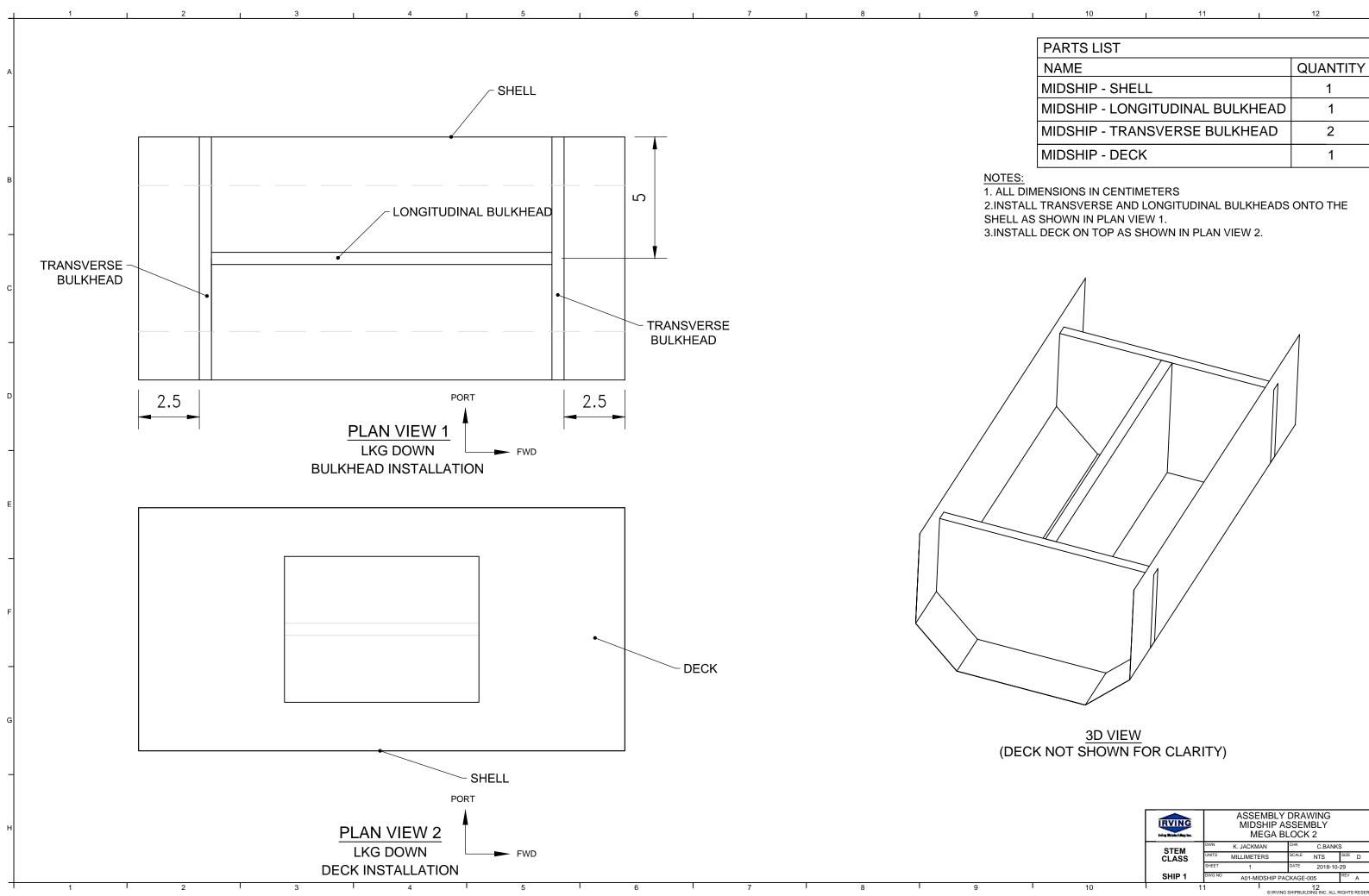


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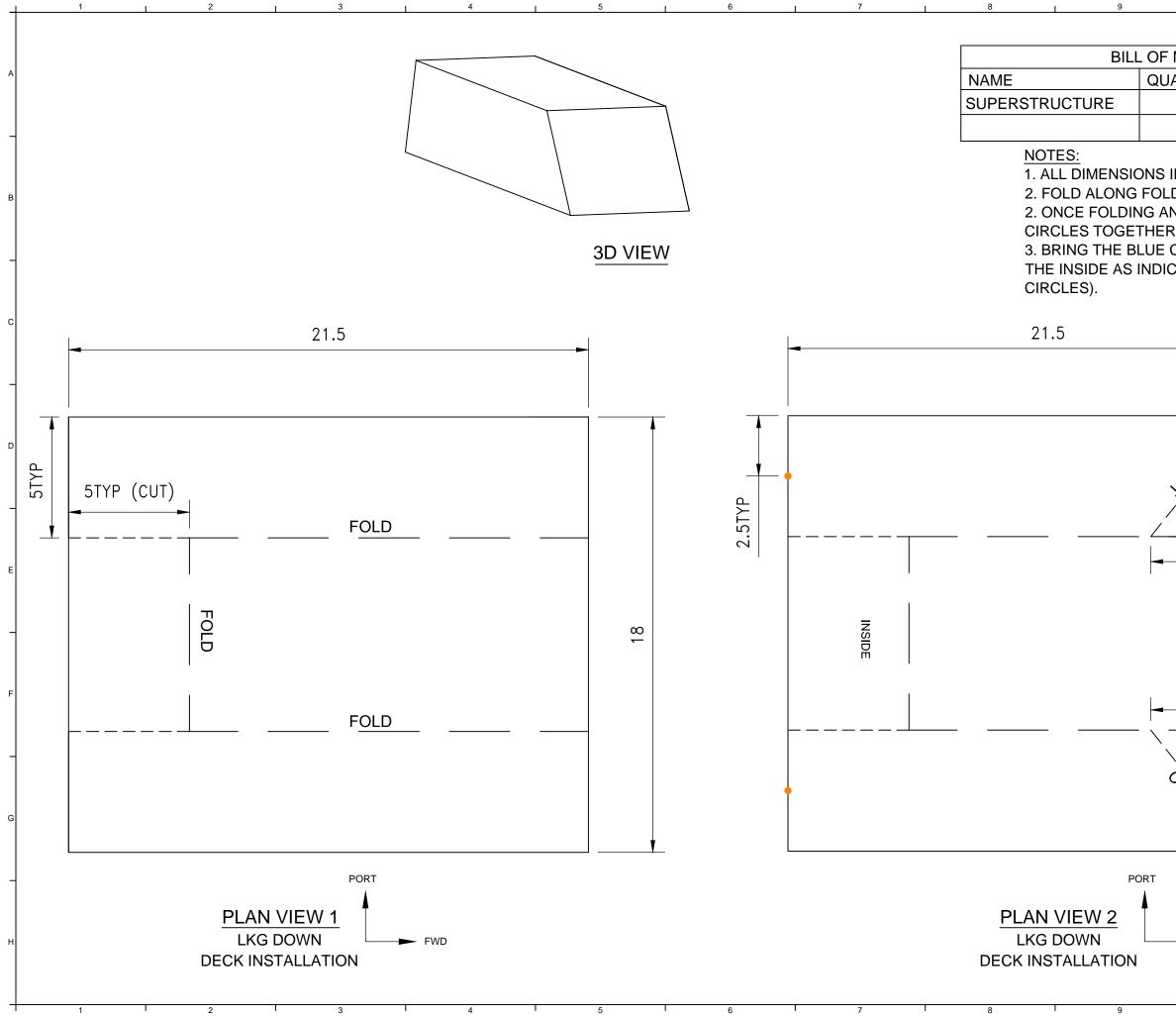
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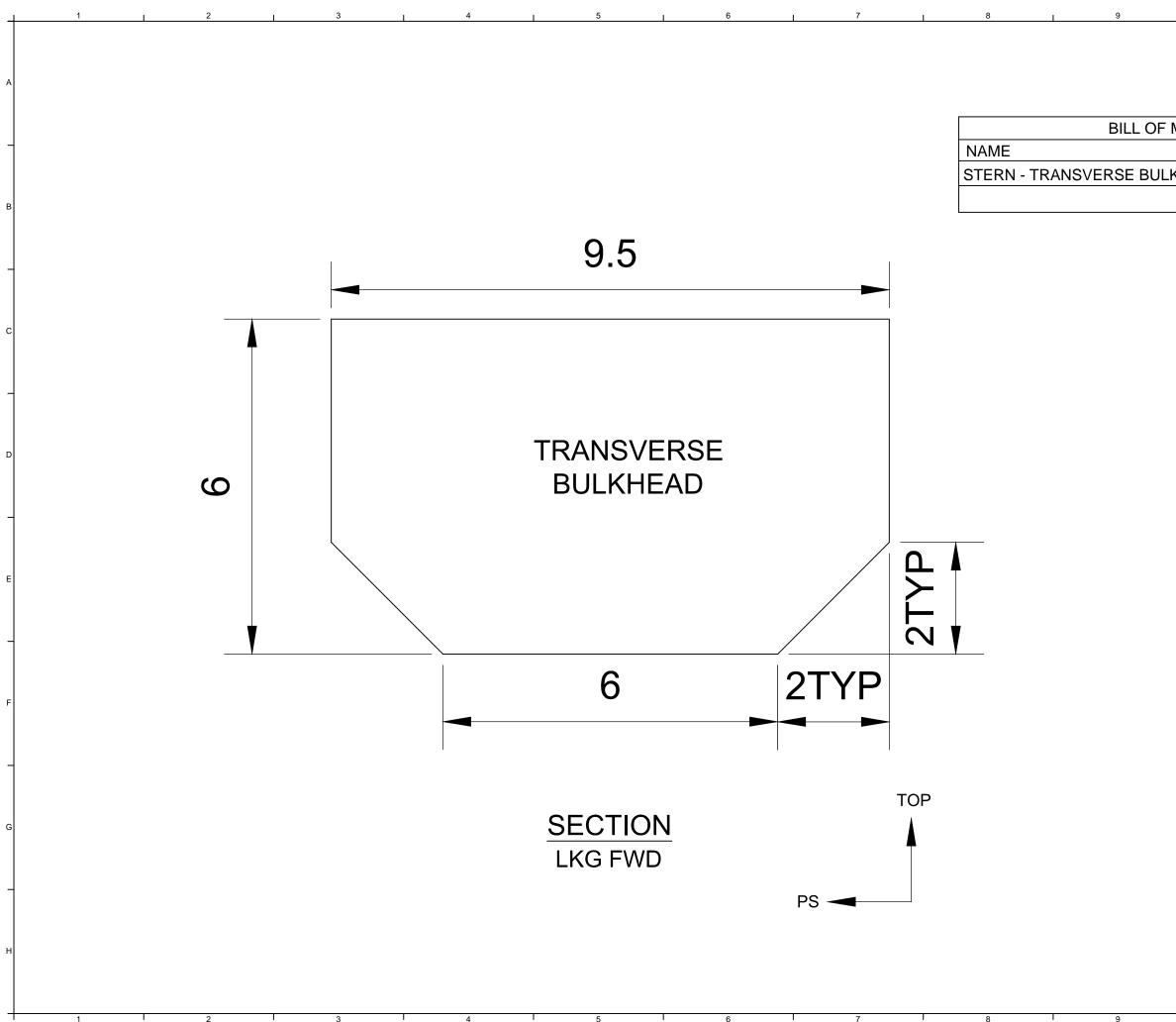
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MIDSHIP - TRANSVERSE BULKHEAD	2
MIDSHIP - DECK	1



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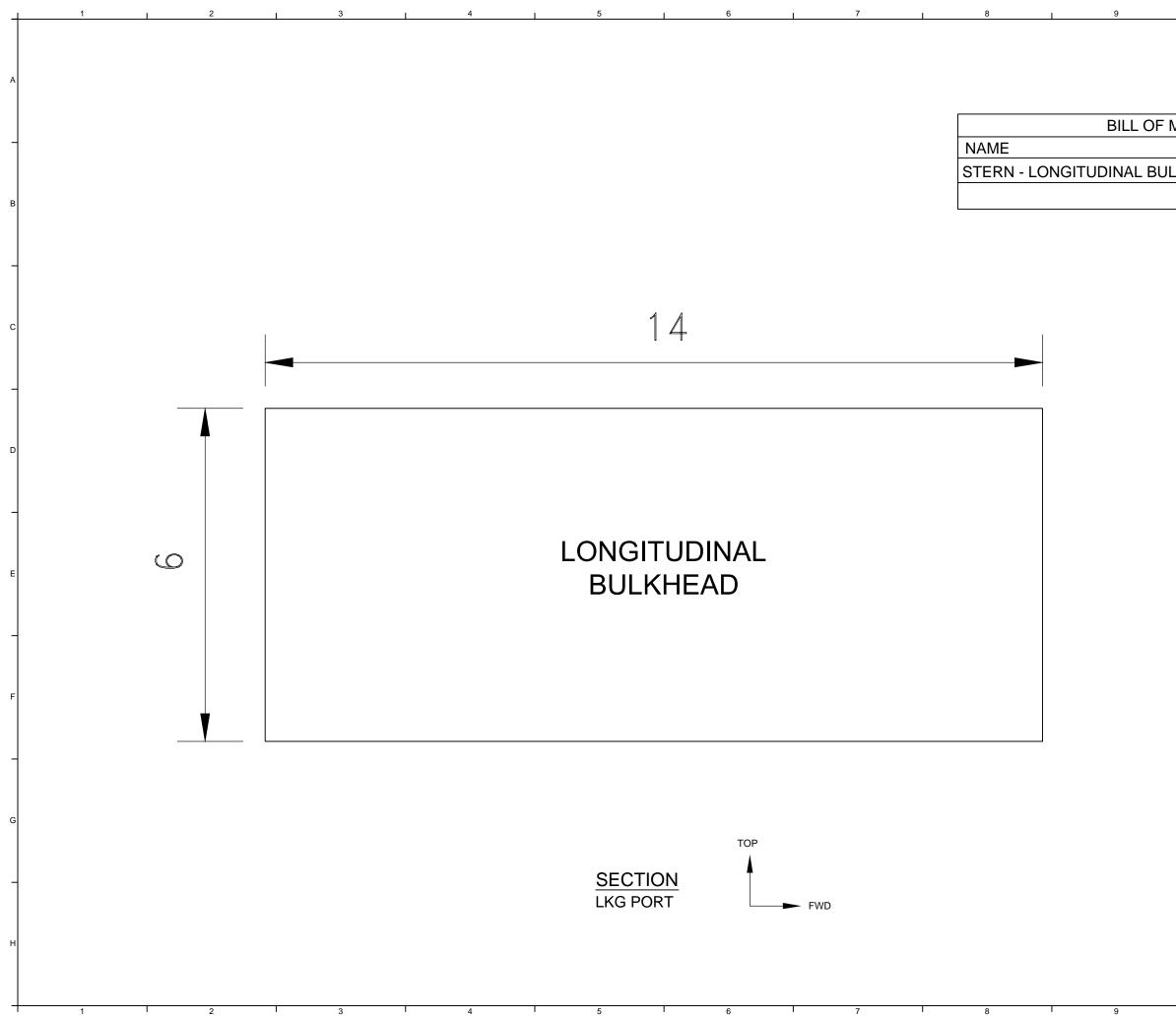
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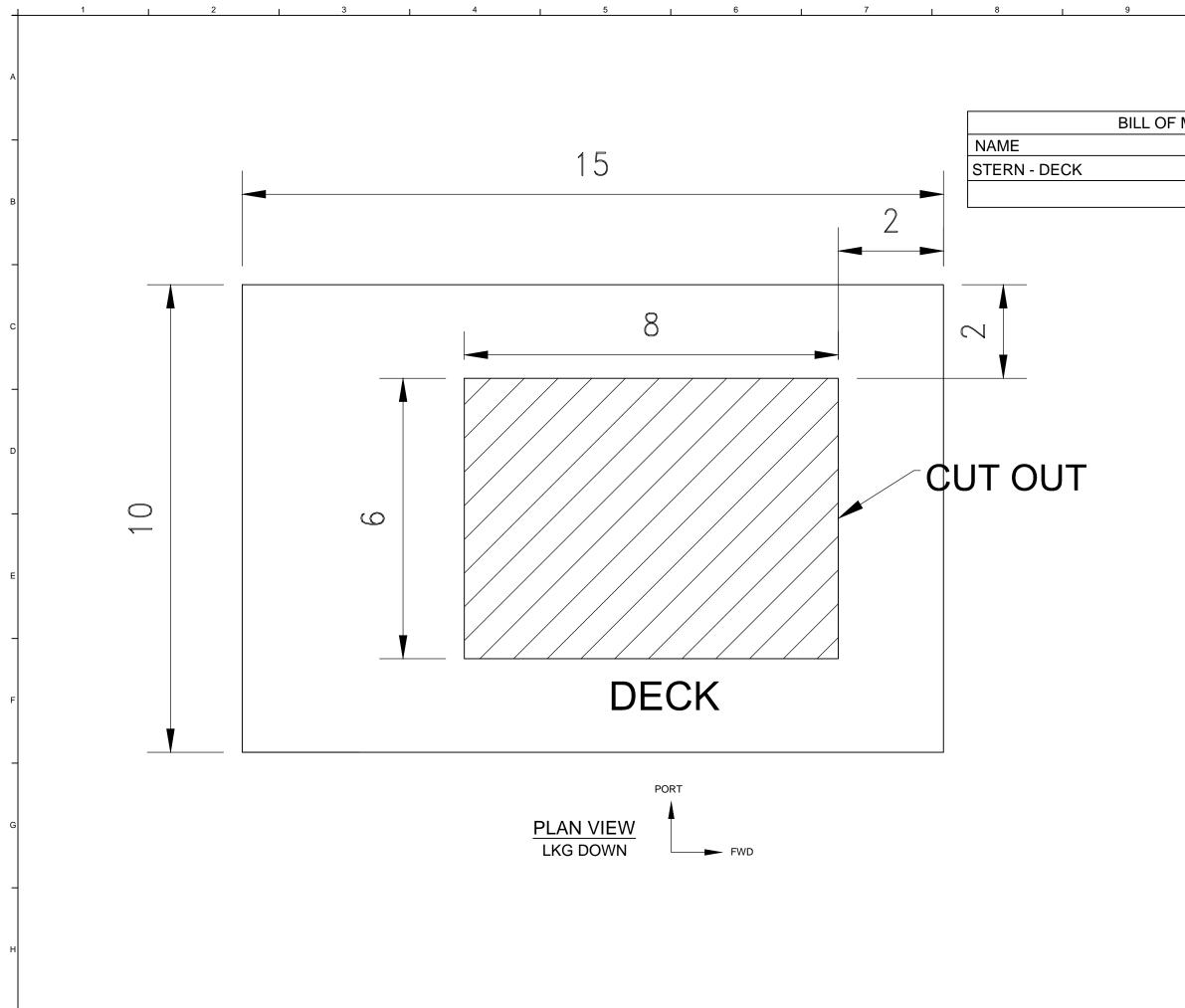


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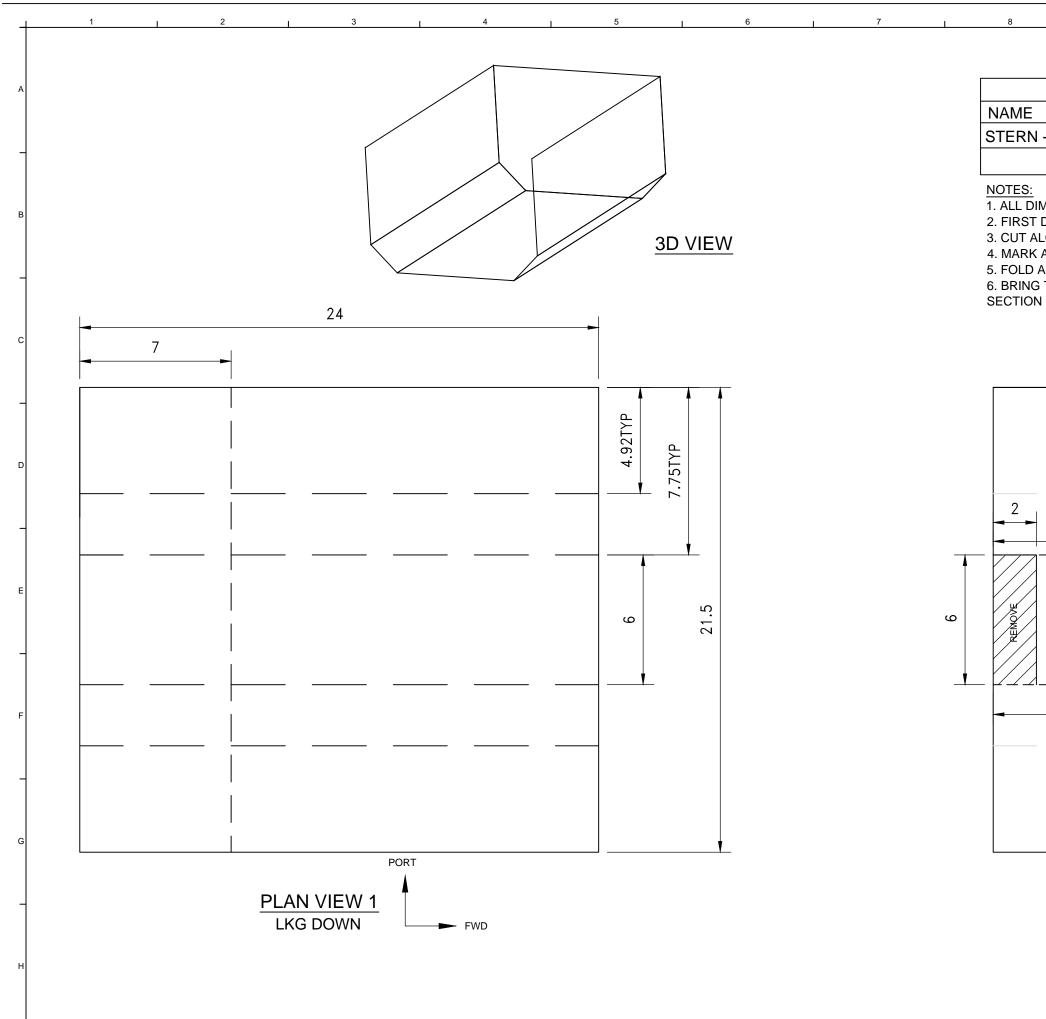
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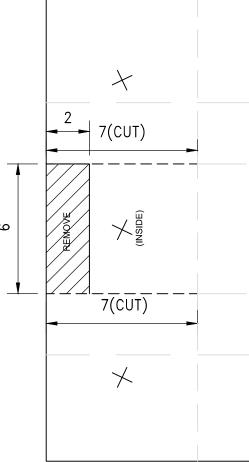
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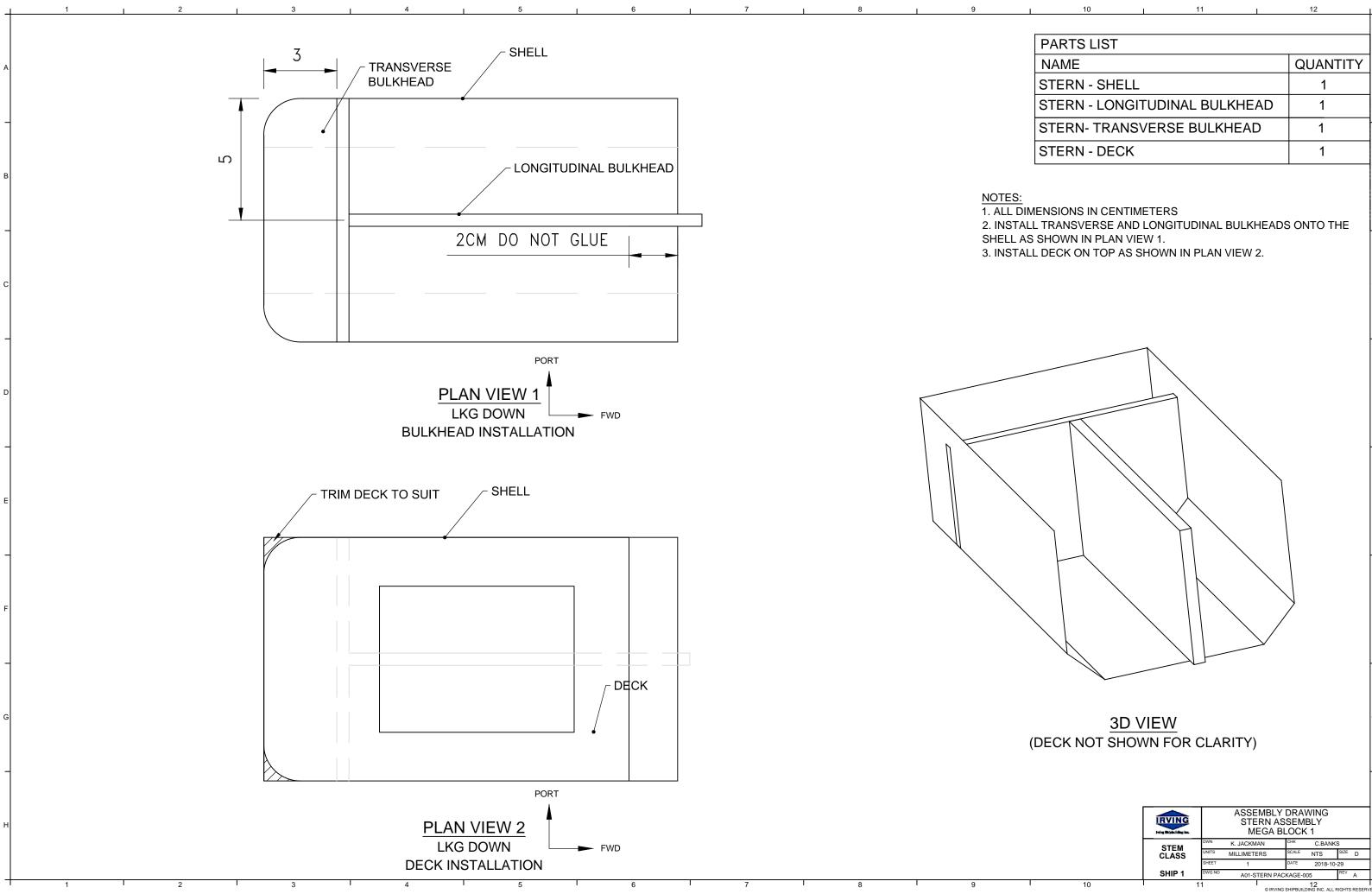
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A01-STERN PACKAGE-004



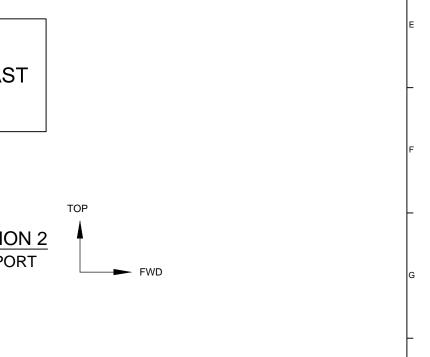
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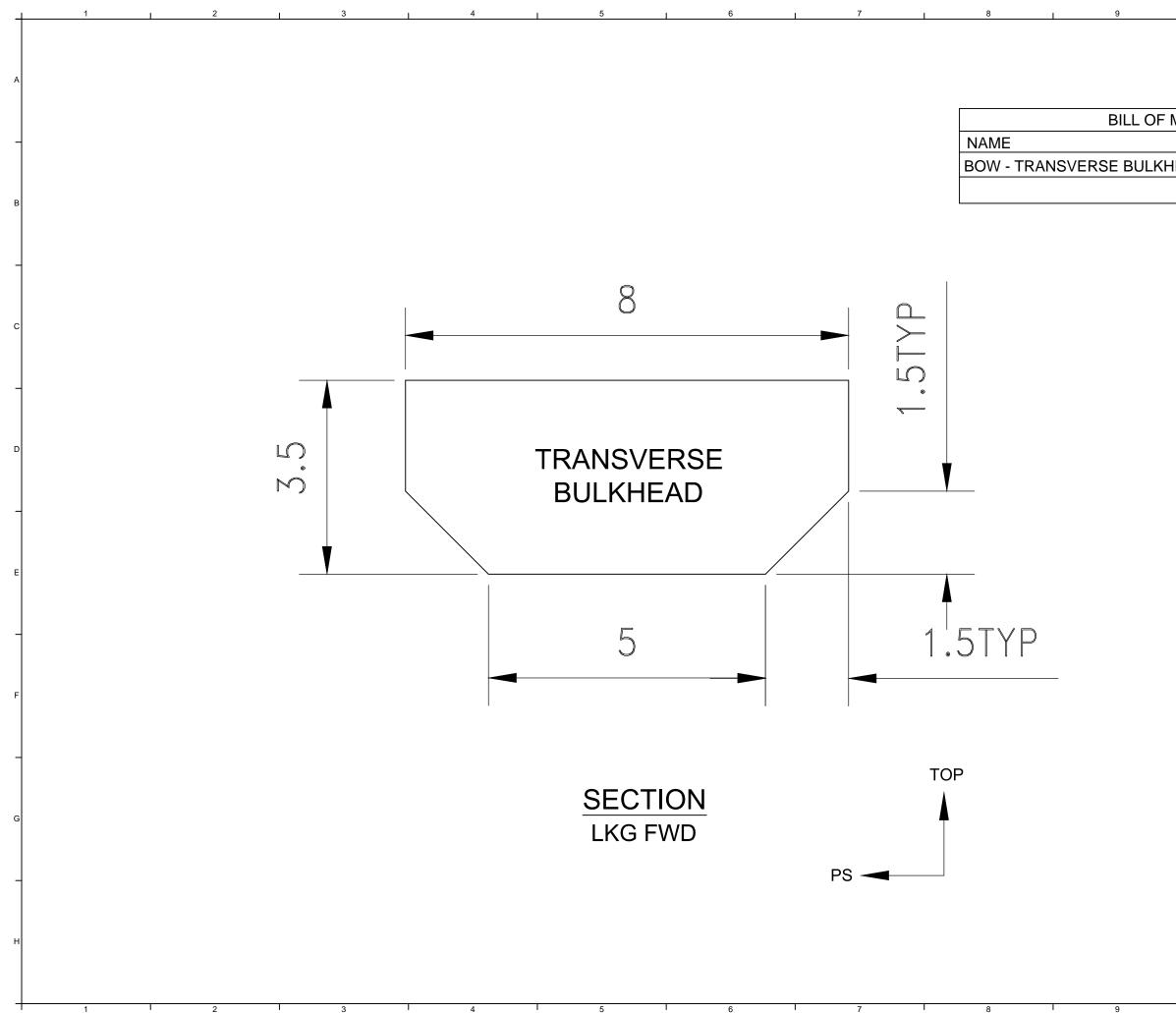
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STERN- TRANSVERSE BULKHEAD	1
STERN - DECK	1

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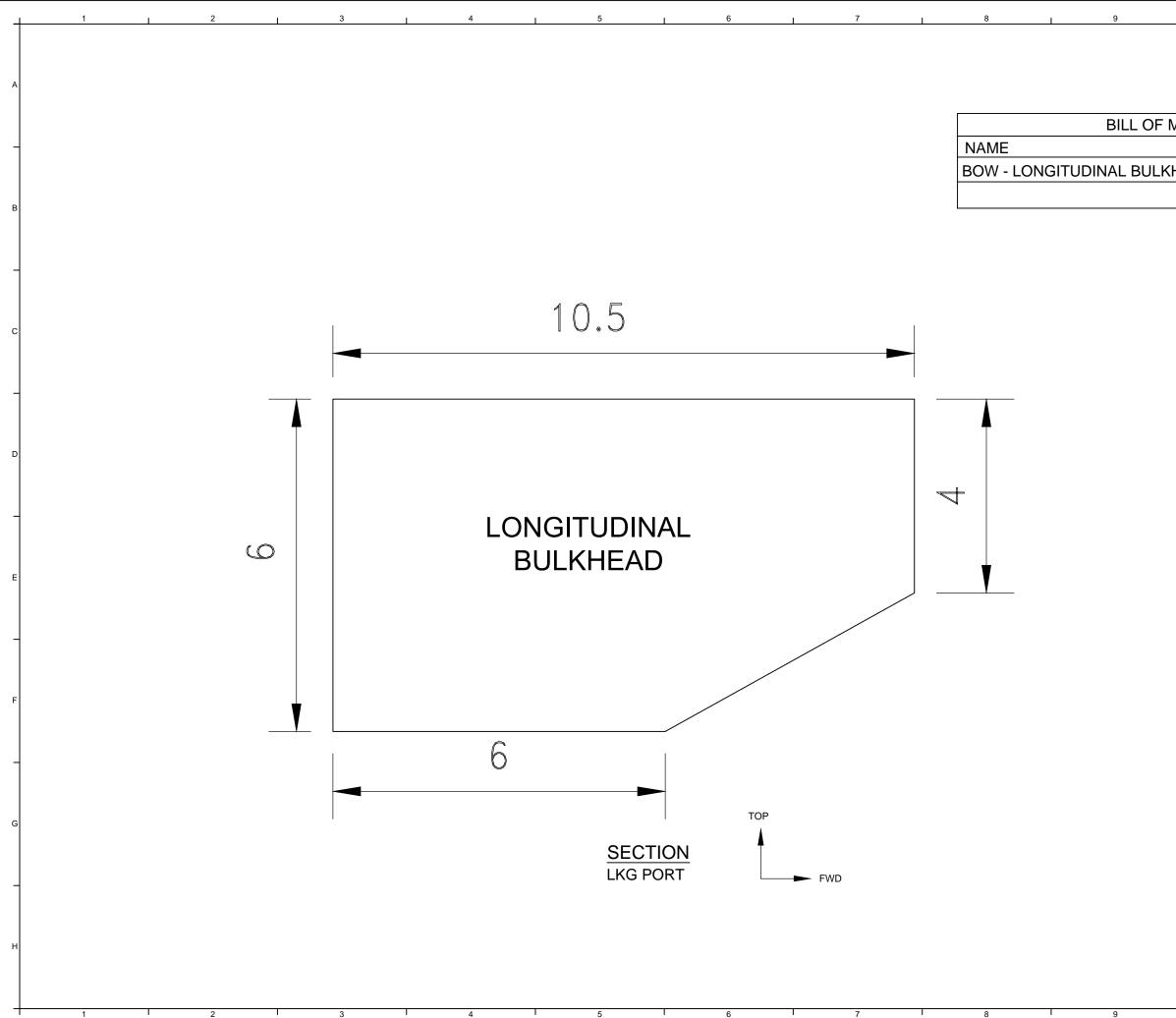


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NOTES:							

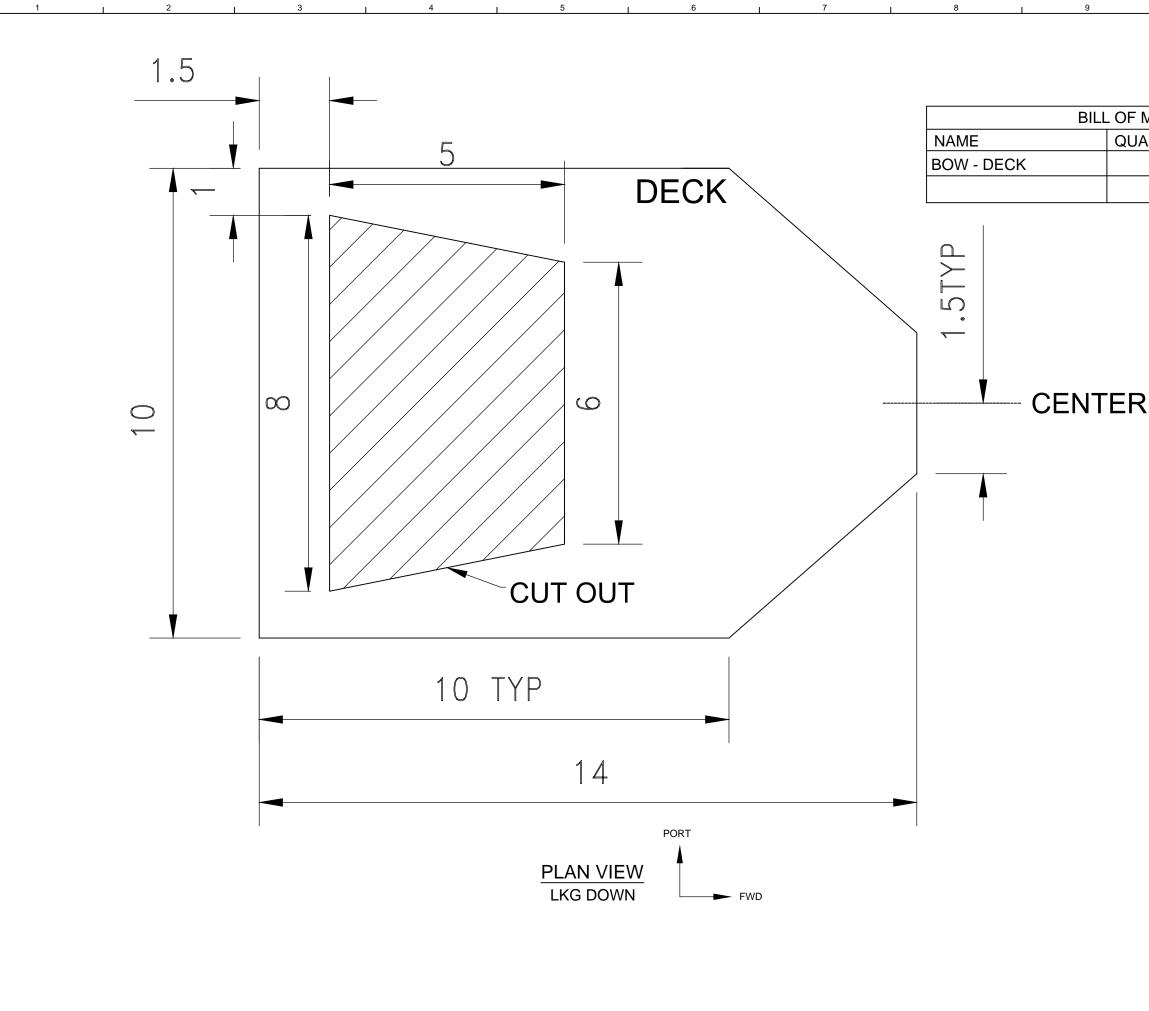
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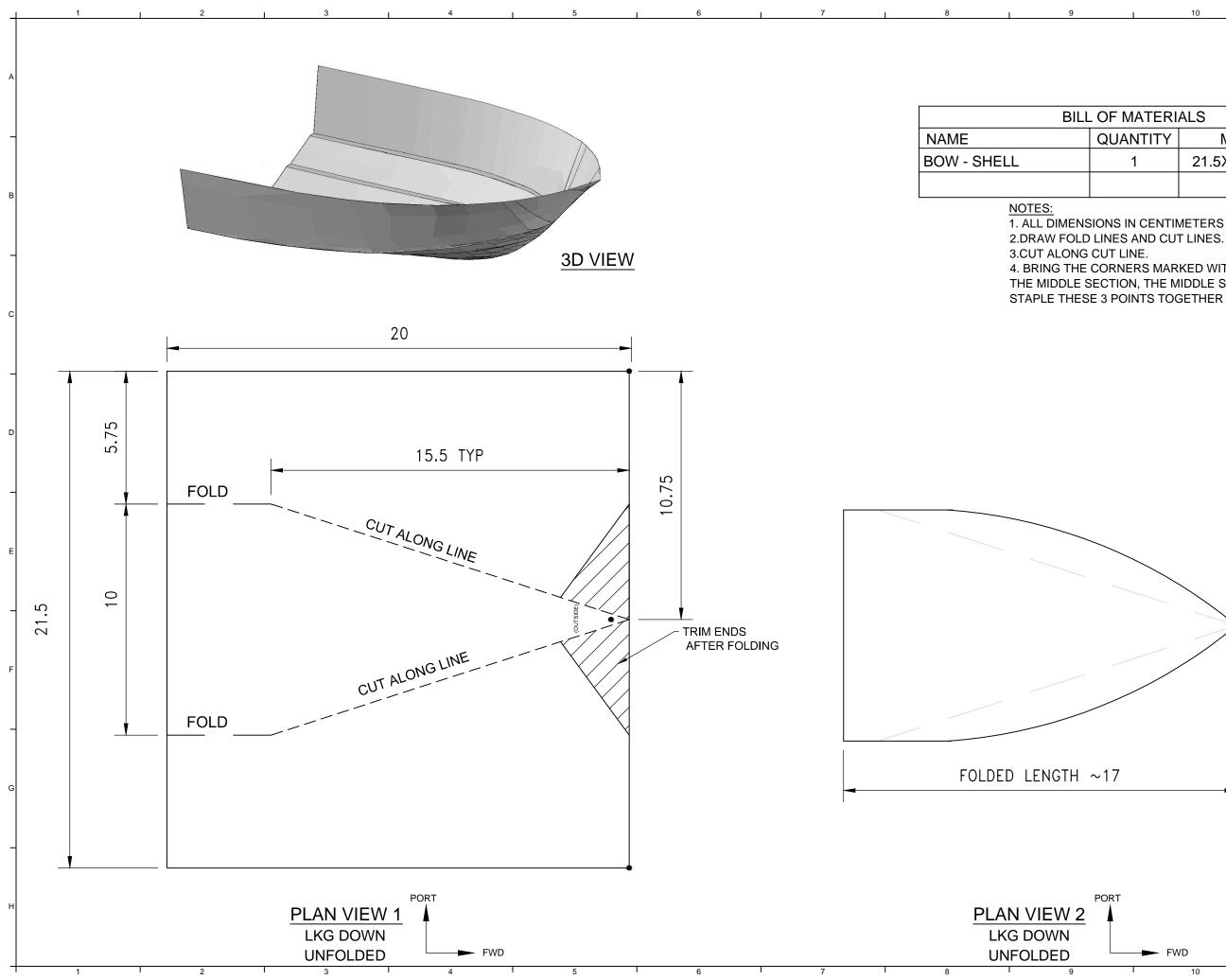
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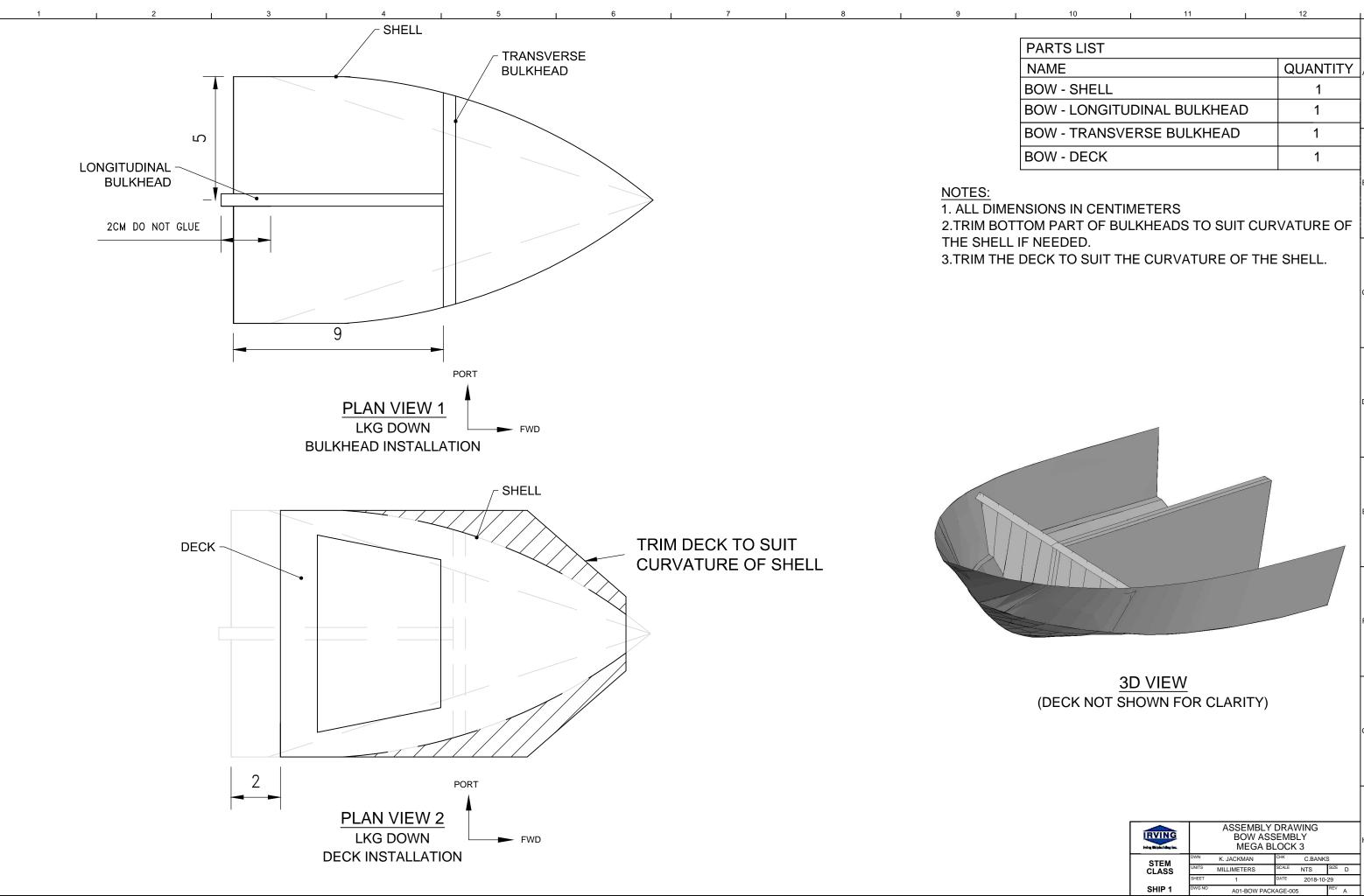
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SHIP 1	DWG NO	A01-BOW PACKAGE-003			^{REV} A	7	
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MATERI	ALS					
ANTITY	MATE	RIAL DESC	RIPTI	NC		}-
1	21.5X28C	M BLACK P	LASTI	C PAPE	R	
						B

4. BRING THE CORNERS MARKED WITH A CIRCLE TOGETHER TO OVERLAP, WITH THE MIDDLE SECTION, THE MIDDLE SECTION SHOULD BE ON THE OUTSIDE. STAPLE THESE 3 POINTS TOGETHER FIRST, THEN GLUE.

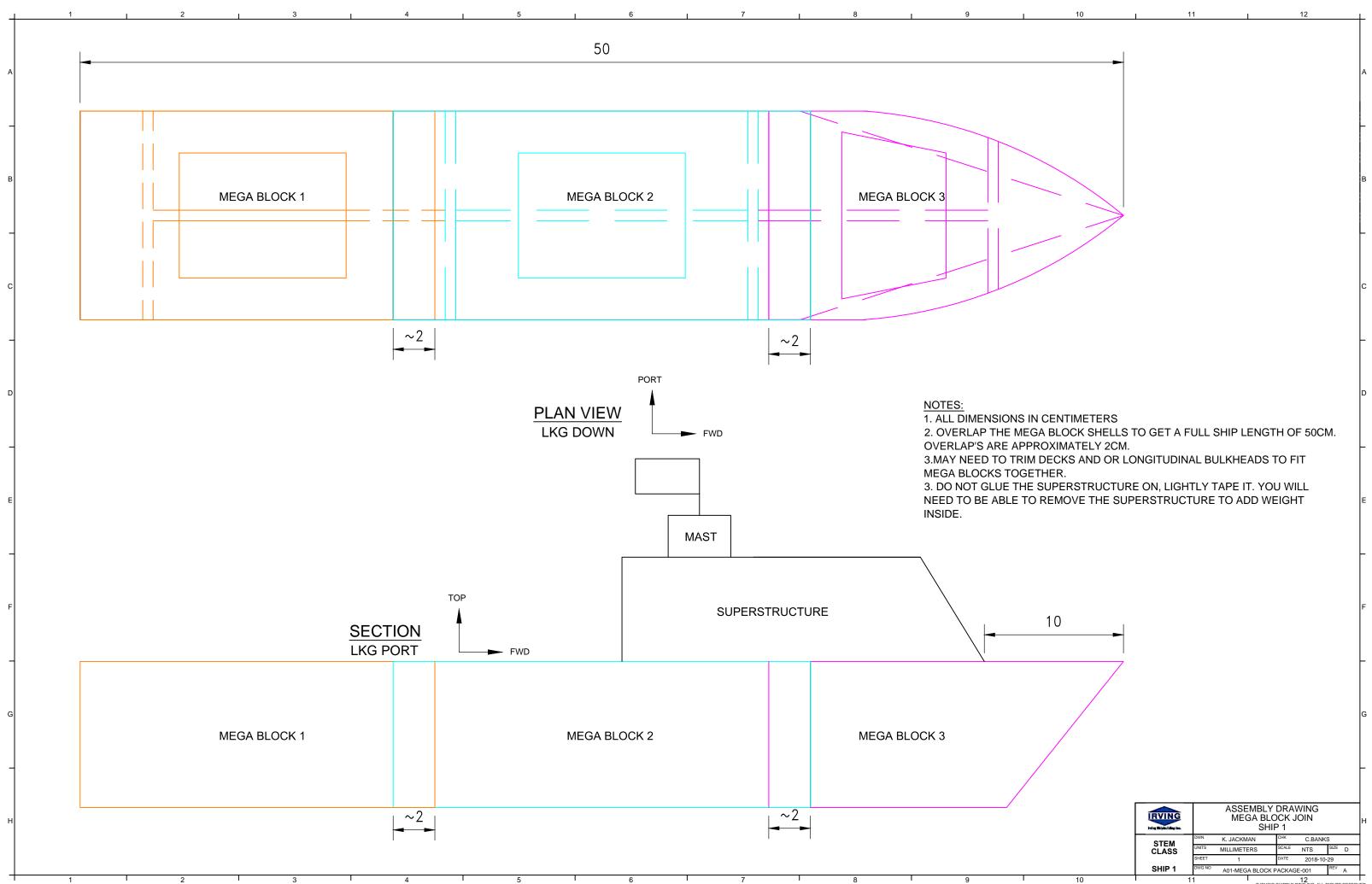
		FWD							
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	STEM	DWN	K. JACKM	AN	СНК	C.BAN	(S]
	CLASS	UNITS	MILLIMETE	RS	SCALE	NTS	SIZE	D	
- FWD		SHEET	1		DATE	2018-10)-29		
	SHIP 1	DWG NO	A01-E	BOW PACK	AGE-00	4	REV	A]
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PARTS LIST	
NAME	QUANTITY
BOW - SHELL	1
BOW - LONGITUDINAL BULKHEAD	1
BOW - TRANSVERSE BULKHEAD	1
BOW - DECK	1

IRVING Integ Bilphelidag Inc.		ASSEMBLY DRAWING BOW ASSEMBLY MEGA BLOCK 3				
STEM	DWN	DWN K. JACKMAN		CHK C.BANKS		
CLASS	UNITS	MILLIMETERS	SCALE	NTS	^{SIZE} D	1
	SHEET	1	DATE	2018-10-	-29	1
SHIP 1	DWG NO	A01-BOW PACKAGE-005				1
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