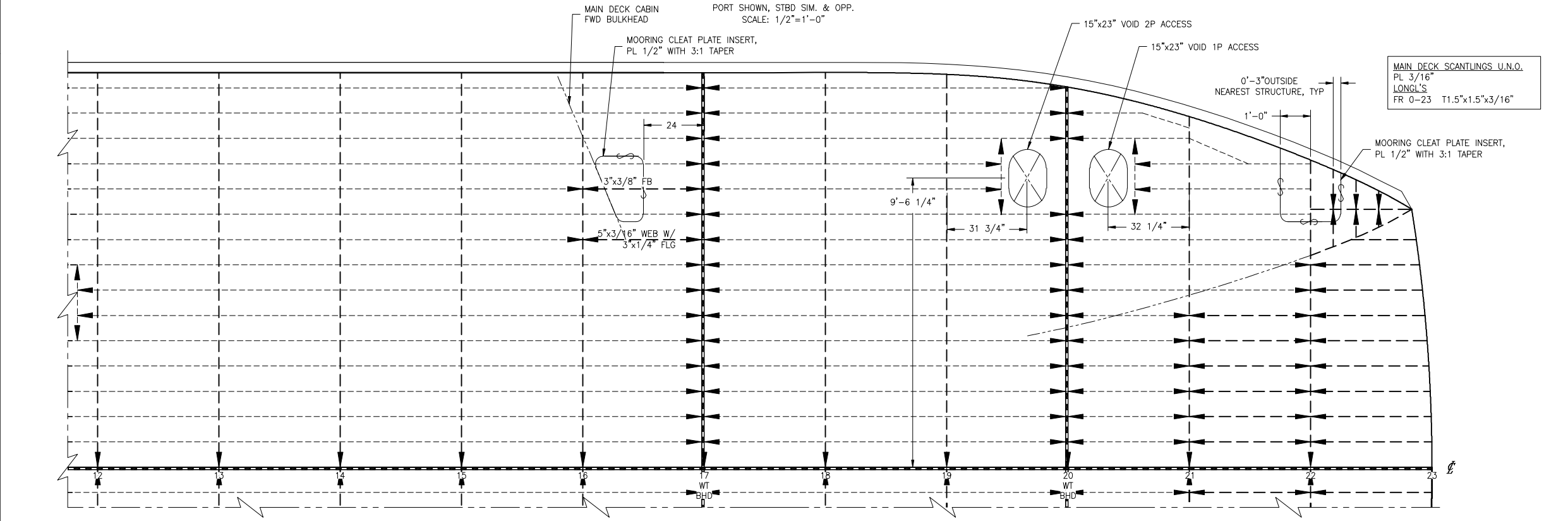


PLAN 1-4C
MAIN DECK (AFT)
 LOOKING DOWN FROM ABOVE
 PORT SHOWN, STBD SIM. & OPP.
 SCALE: 1/2"=1'-0"



PLAN 1-4A
MAIN DECK (FWD)
 LOOKING DOWN FROM ABOVE
 PORT SHOWN, STBD SIM. & OPP.
 SCALE: 1/2"=1'-0"

REVISION HISTORY					
REV	ZONE	DESCRIPTION	DWN	DATE	APVD

GENERAL NOTES				
1.	MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH 46 CFR SUBCHAPTER T REGULATIONS.			
2.	STRUCTURES SHALL BE ASSEMBLED USING ALL WELDED CONSTRUCTION UNLESS OTHERWISE NOTED. WELDING SHALL BE IN ACCORDANCE WITH APPLICABLE LLOYD'S RULES. ALL WELDING SHALL DEVELOP THE FULL STRENGTH OF THE STRUCTURAL MATERIAL. PLATES SHALL BE 5083 H116/H321 ALUMINUM, SHAPES SHALL BE 6061-T6 UNLESS NOTED OTHERWISE.			
3.	PROJECTING ENDS OF METAL SHALL BE GROUND SMOOTH TO PROVIDE SUITABLE OPERATING CONDITIONS AND TO ENSURE SAFETY OF PERSONNEL.			
4.	STRUCTURE DESIGNED IN ACCORDANCE WITH LLOYD'S RULES AND REGULATIONS FOR CLASSIFICATION OF SPECIAL SERVICE CRAFT, JULY 2016.			
5.	LIGHTENING HOLES IN TONNAGE FRAMES 16 & 18 MAY NOT BE LARGER THAN 18" DIAMETER OR THE EQUIVALENT AREA, AND MUST BE AT LEAST 18" FROM EVERY OTHER HOLE.			
6.	LONGITUDINAL INBOARD SHELL SIDE AND BOTTOM STIFFENERS SHALL BE WELDED ALL AROUND WHERE THEY MEET TRANSVERSE FRAMES 10-17.			
7.	LONGITUDINAL INBOARD/OUTBOARD SIDES, BOTTOM AND DECK STIFFENERS SHALL BE WELDED ALL AROUND WHERE THEY MEET TRANSVERSE FRAMES 17-22.			
8.	HULL FRAMING IN WAY OF JET SHALL BE SUITED TO CERTIFIED VENDOR DRAWINGS.			
9.	FOR TANK FRAMING, SEE REF 5			
10.	THE FOLLOWING FRAME SETS HAVE SIMILAR SCANTLINGS WITH THE SECOND SET FULLY SHOWN IN REF 6:			
10.1.	TRANSOM - FR 9			
10.2.	FR 09 - FR 15			
10.3.	FR 15 - FR 23			

REFERENCES	
1.	16109-003-802-0 CONTRACT SPECIFICATIONS
2.	16109-003-061-0 SCANTLING CALCULATIONS
3.	16109-003-101-1 PROFILES & ARRANGEMENTS
4.	16109-003-170-1 PROPULSION EQUIPMENT ARRANGEMENT
5.	16109-003-261-1 FUEL/WATER/SEWAGE TANK CONFIG & STRUCTURE
6.	16109-003-110-0 MIDSHIP SECTION
7.	16109-003-065-0 HVAC CALCULATIONS AND BLOCK DIAGRAM

REFERENCES	
1.	16109-003-802-0 CONTRACT SPECIFICATIONS
2.	16109-003-061-0 SCANTLING CALCULATIONS
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4.	16109-003-170-1 PROPULSION EQUIPMENT ARRANGEMENT
5.	16109-003-261-1 FUEL/WATER/SEWAGE TANK CONFIG & STRUCTURE
6.	16109-003-110-0 MIDSHIP SECTION
7.	16109-003-065-0 HVAC CALCULATIONS AND BLOCK DIAGRAM



Elliott Bay Design Group
 North Carolina, PLLC

CLIENT: NORTH CAROLINA D.O.T.
 RALEIGH, NORTH CAROLINA

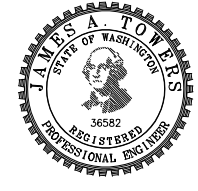
PROJECT: PEDESTRIAN FERRY

TITLE: HULL STRUCTURE	
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SCALE: AS NOTED	FILE NAME: 16109-003-120-0
DWN: MWR	MOD:
CD: RCB/JAT	APVD: JAT
APVD DATE: 3/3/2017	SHEET 1 OF 9

INDEX	
SHEET NO.	SHEET CONTENT
1	MAIN DECK
2	WET DECK

3	BOTTOM SHELL
4	HULL SIDE (OUTBOARD)
5	HULL SIDE (INBOARD)
6	DEMI-HULL CL/ENGINE GIRDER & LONG'L

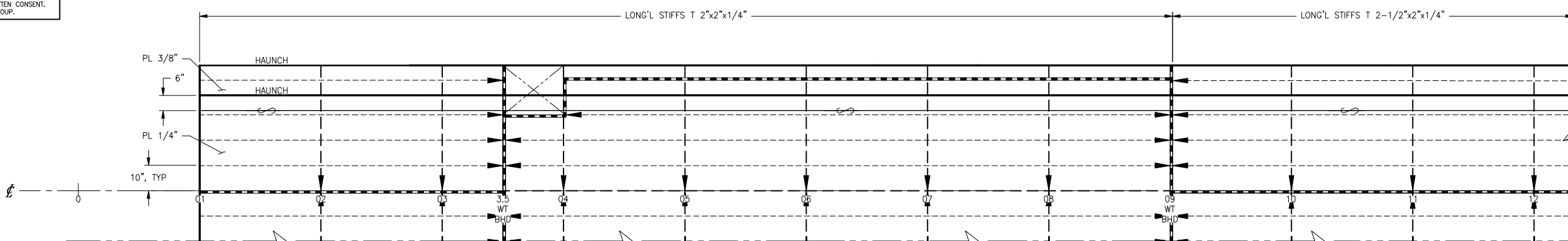
7	INBOARD/OUTBOARD ENGINE GIRDERS, SWIM STEP
8	SECTIONS (FR 01, 3.5, 07, 08, 09, 20)
9	MISCELLANEOUS DETAILS



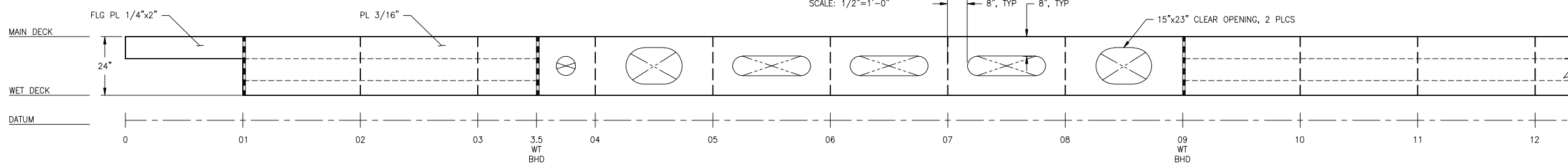
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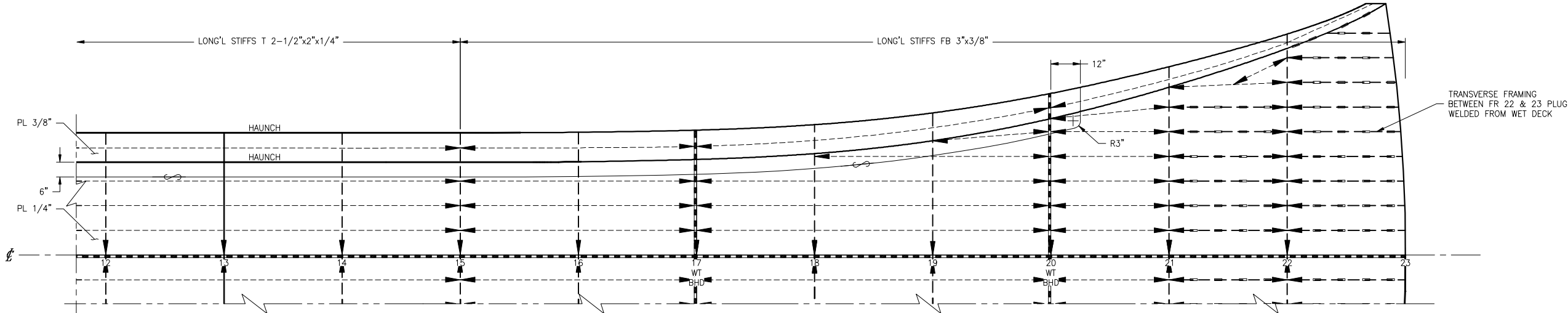
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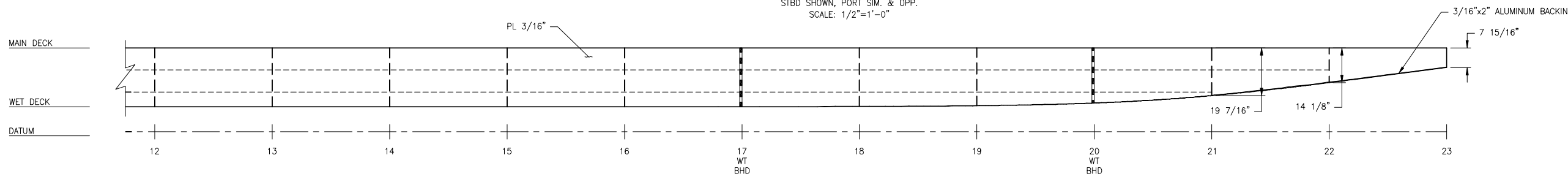
PLAN 2-4D
WET DECK (AFT)
 LOOKING UP FROM BASELINE
 STBD SHOWN, PORT SIM. & OPP.
 SCALE: 1/2"=1'-0"



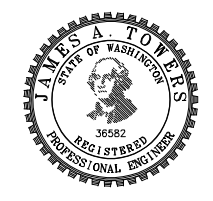
ELEVATION 2-4C
CL LONG'L AT WET DECK (AFT)
 LOOKING TO PORT AT CL
 SCALE: 1/2"=1'-0"



PLAN 2-4B
WET DECK (FWD)
 LOOKING UP FROM BASELINE
 STBD SHOWN, PORT SIM. & OPP.
 SCALE: 1/2"=1'-0"



ELEVATION 2-4A
CL LONG'L AT WET DECK (FWD)
 LOOKING TO PORT AT CL
 SCALE: 1/2"=1'-0"



SIZE	D	DWG NO.	16109-003-120-0	REV	-
SCALE	AS NOTED	FILE NAME	16109-003-120-0-	SHEET	2 OF 9

6 5 4 3 2 1

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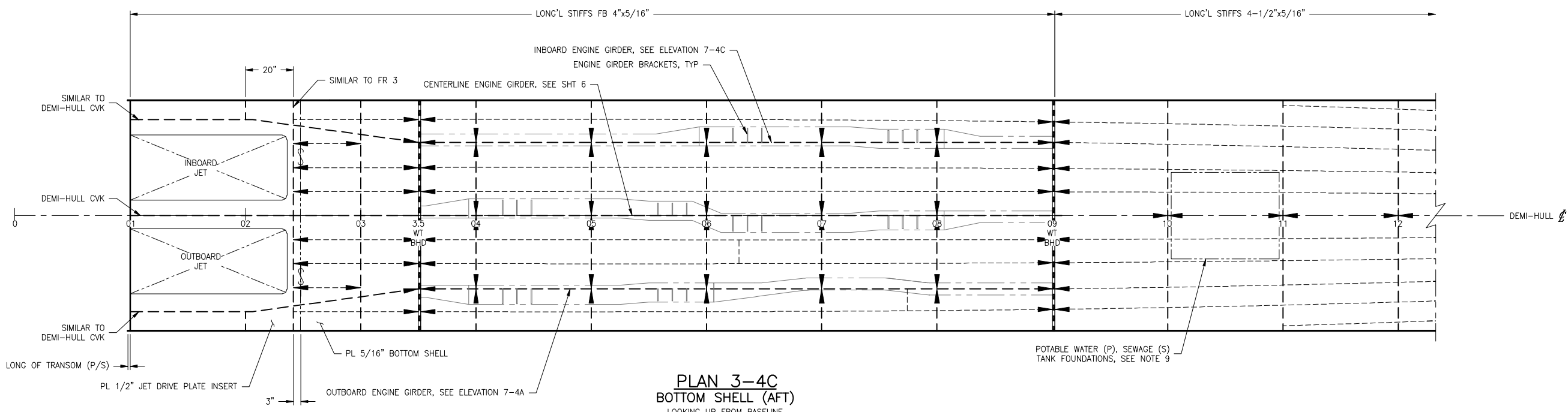
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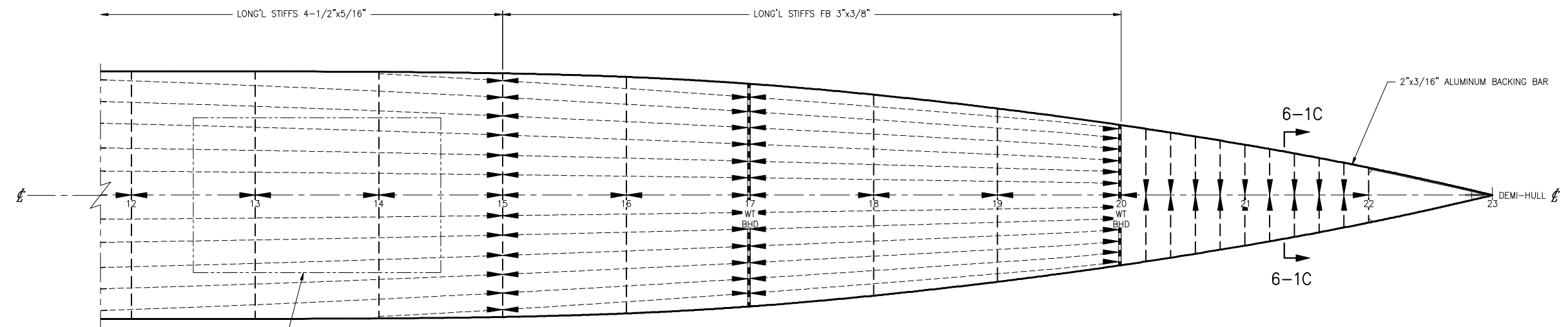
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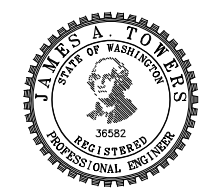
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PLAN 3-4C
BOTTOM SHELL (AFT)
 LOOKING UP FROM BASELINE
 PORT SHOWN, STBD SIM. & OPP.
 SCALE: 1/2"=1'-0"



PLAN 3-4A
BOTTOM SHELL (FWD)
 LOOKING UP FROM BASELINE
 PORT SHOWN, STBD SIM. & OPP.
 SCALE: 1/2"=1'-0"



SIZE	D	OWG NO.	16109-003-120-0	REV	-
SCALE	AS NOTED	FILE NAME	16109-003-120-0-	SHEET	3 OF 9

6

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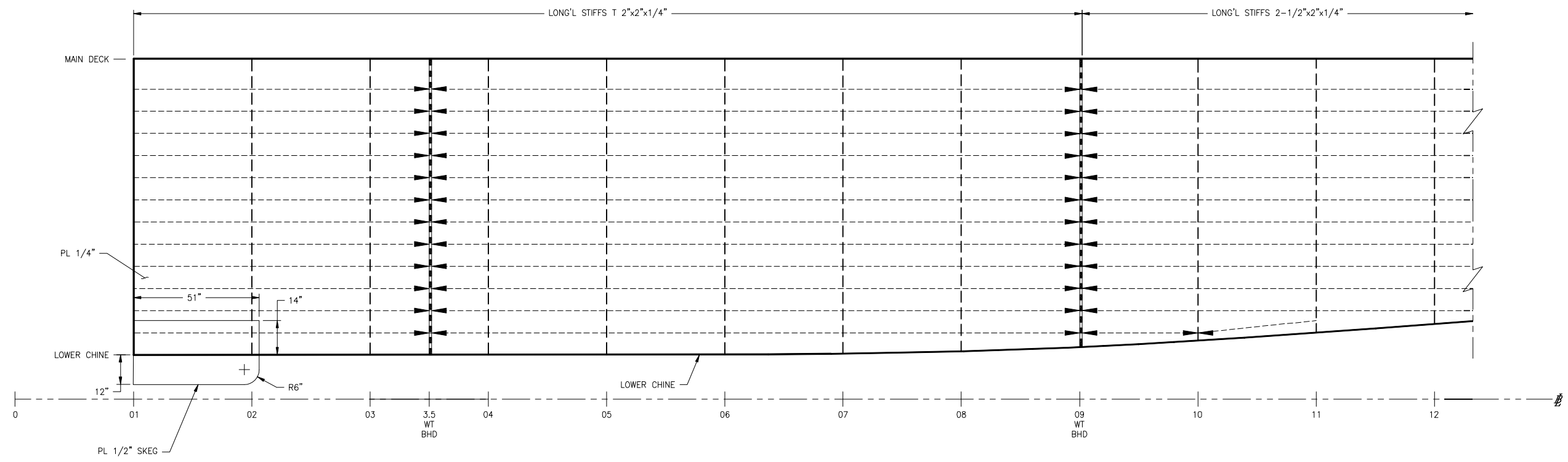
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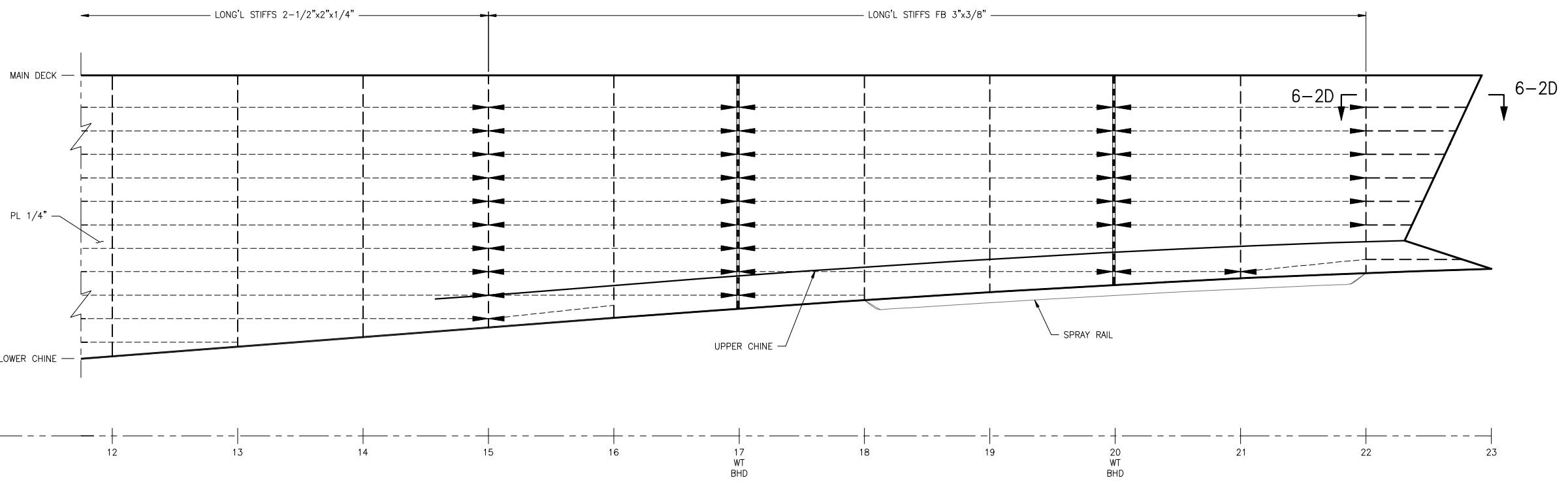
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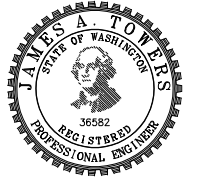
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ELEVATION 4-4C
 DEMI-HULL OUBOARD SIDE SHELL (AFT)
 LKG INBOARD TO PORT
 STBD SHOWN, PORT SIM. & OPP.
 SCALE: 1/2"=1'-0"



ELEVATION 4-4A
 DEMI-HULL OUBOARD SIDE SHELL (FWD)
 LKG INBOARD TO PORT
 STBD SHOWN, PORT SIM. & OPP.
 SCALE: 1/2"=1'-0"



SIZE	D	DWG NO.	16109-003-120-0	REV	-
SCALE	AS NOTED	FILE NAME	16109-003-120-0-	SHEET	4 OF 9

6

5

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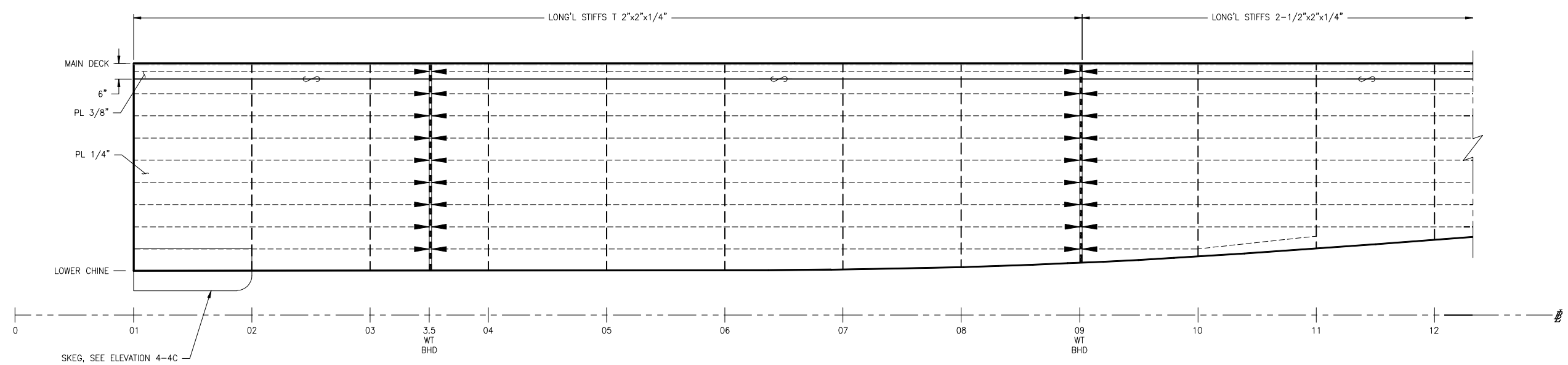
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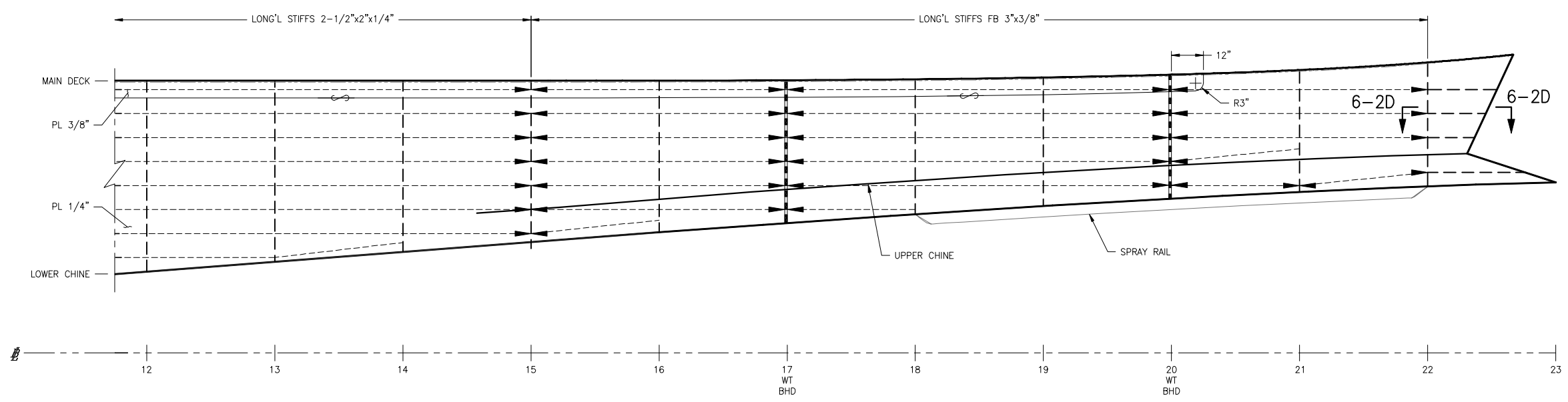
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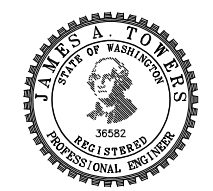
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ELEVATION 5-4C
 DEMI-HULL INBOARD SIDE SHELL (AFT)
 LOOKING TO PORT FROM VESSEL CL
 PORT SHOWN, STBD SIM. & OPP.
 SCALE: 1/2"=1'-0"



ELEVATION 5-4A
 DEMI-HULL INBOARD SIDE SHELL (FWD)
 LOOKING TO PORT FROM VESSEL CL
 PORT SHOWN, STBD SIM. & OPP.
 SCALE: 1/2"=1'-0"



SIZE	D	DWG NO.	16109-003-120-0	REV	-
SCALE	AS NOTED	FILE NAME	16109-003-120-0-	SHEET	5 OF 9

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5

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A

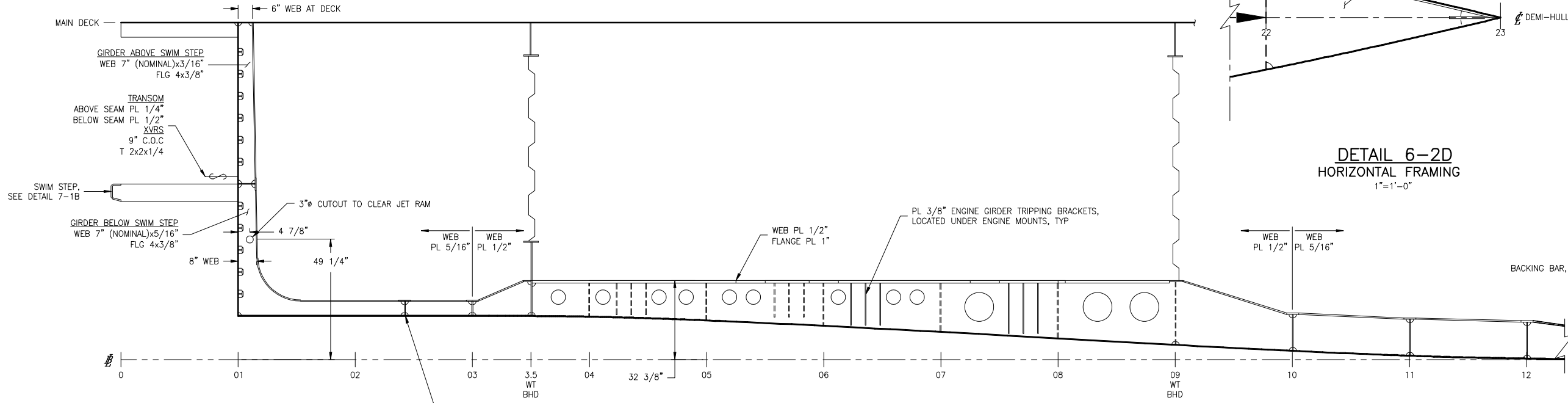
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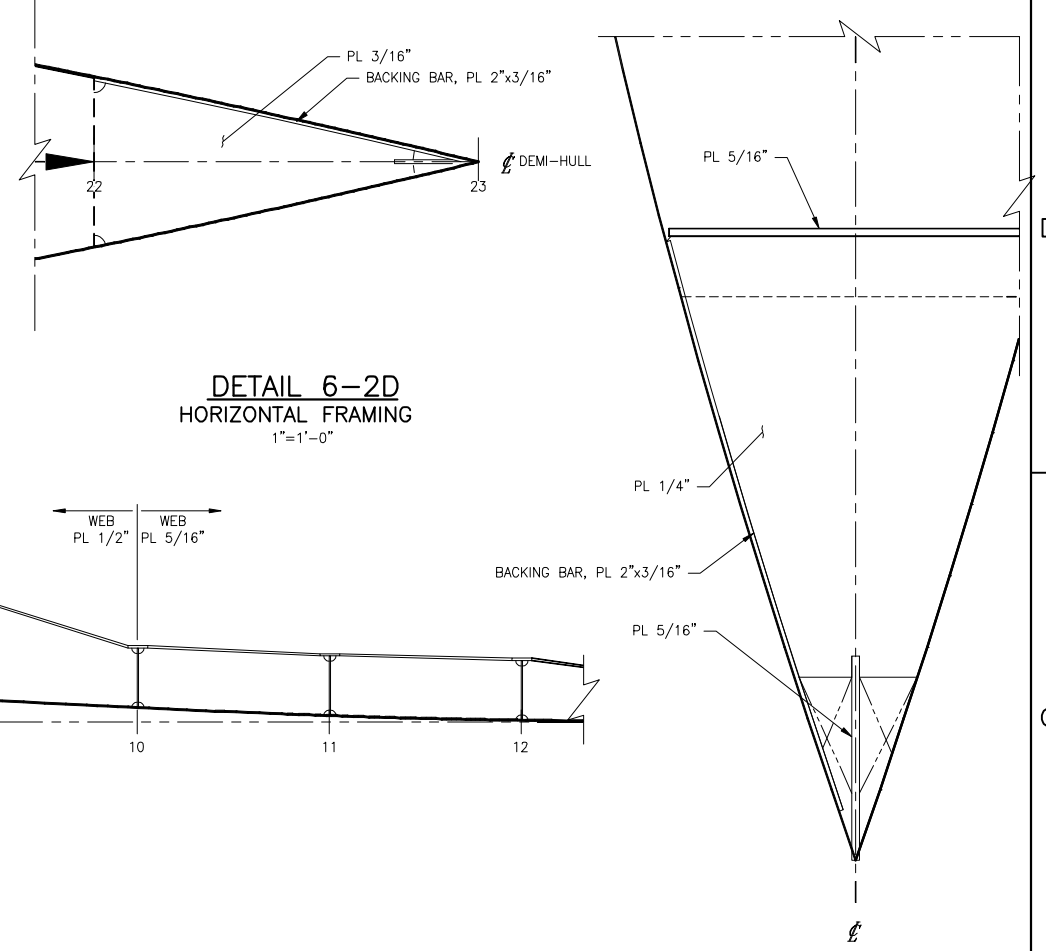
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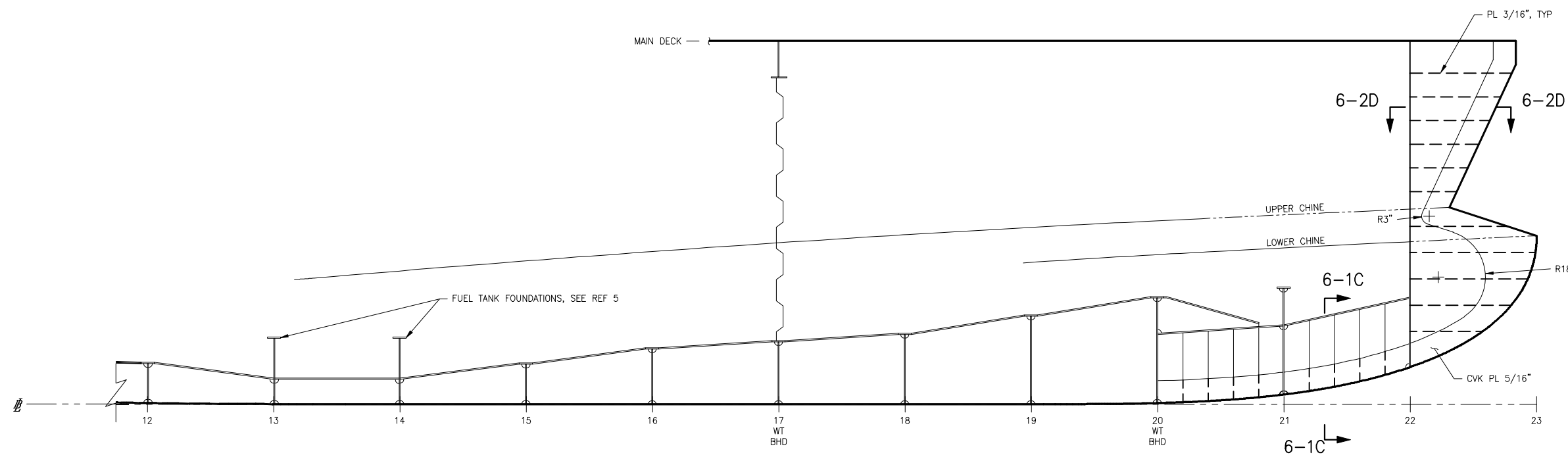
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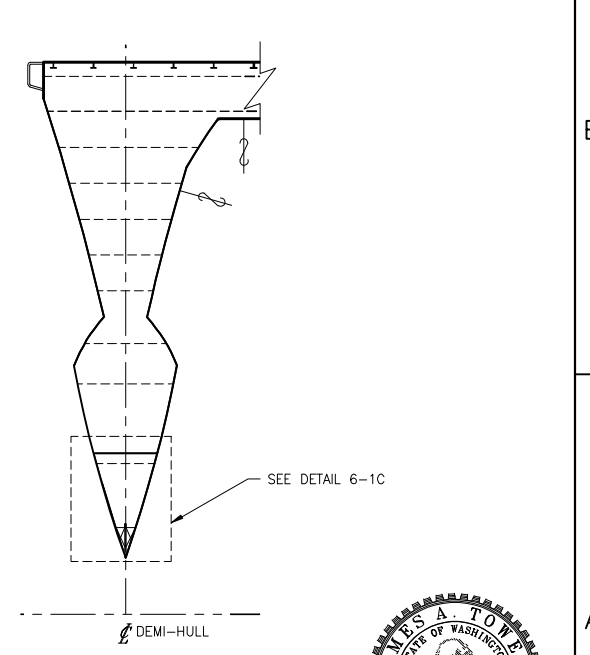
ELEVATION 6-4C
 DEMI-HULL CVK & ENGINE GRDR (AFT)
 LKG TO PORT AT CL OF PORT DEMI-HULL
 PORT SHOWN, STBD SIM. & OPP.
 SCALE: 1/2"=1'-0"



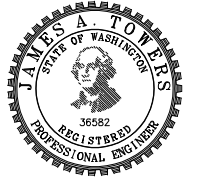
DETAIL 6-1C
 TYP WATERTIGHT CVK BOX
 3"=1'-0"



ELEVATION 6-4C
 DEMI-HULL CVK (FWD)
 LKG TO PORT AT CL OF PORT DEMI-HULL
 PORT SHOWN, STBD SIM. & OPP.
 SCALE: 1/2"=1'-0"



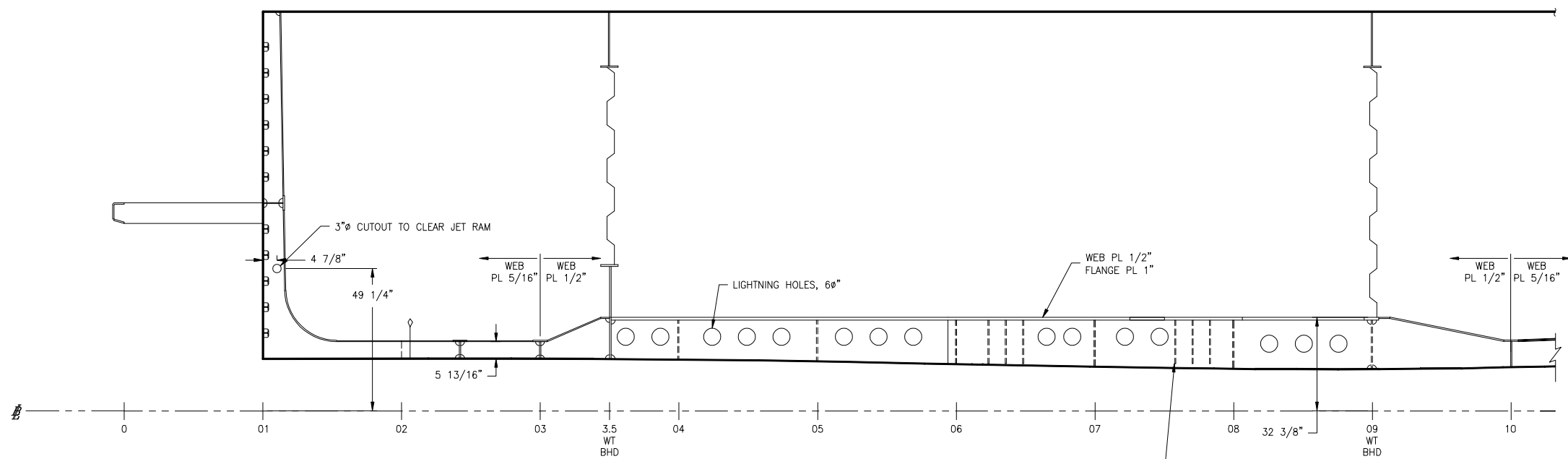
SECTION 6-1A
 FR 22 W.T. BKHD, LKG FWD
 SCALE: 1/2"=1'-0"



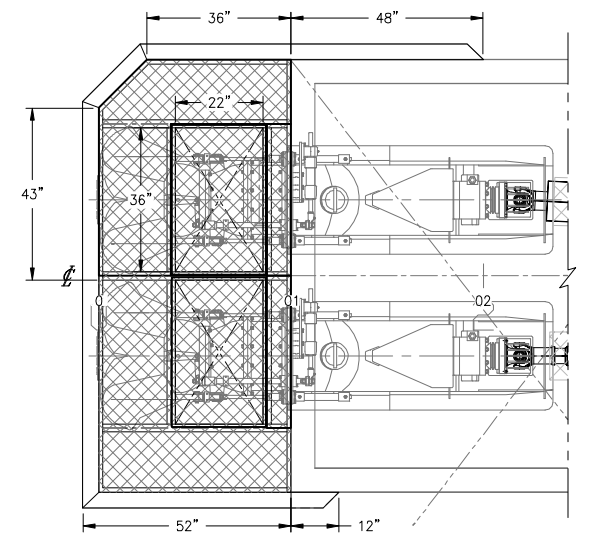
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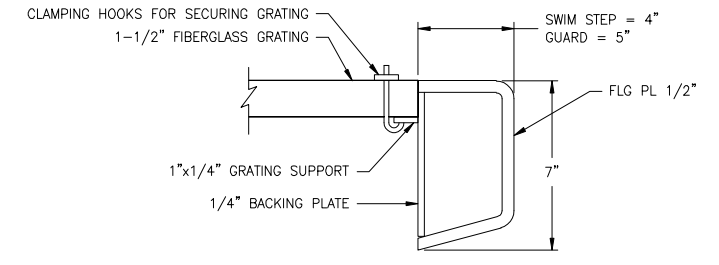
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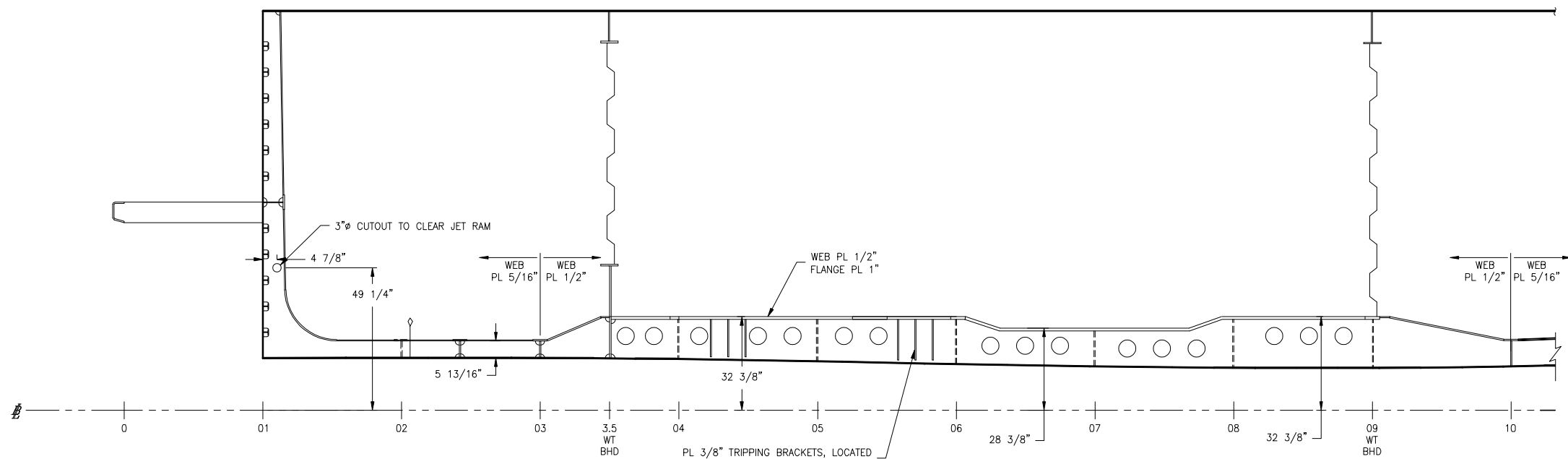
ELEVATION 7-4C
 INBOARD MAIN ENGINE GIRDER
 LOOKING TO PORT AT PORT DEMI-HULL GIRDER
 PORT SHOWN, STBD SIM. & OPP.
 SCALE: 1/2"=1'-0"



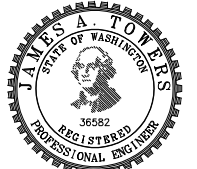
PLAN 7-1C
 SWIM STEP DETAIL
 PORT HULL SHOWN; STBD SIM. & OPP.
 SCALE: 1/2"=1'-0"



DETAIL 7-1B
 SWIM STEP & GUARD DETAIL
 SWIM STEP = 4"
 GAURD = 5"
 SCALE: 1/2"=1'-0"



ELEVATION 7-4A
 OUTBOARD MAIN ENGINE GIRDER
 LOOKING TO PORT AT PORT DEMI-HULL
 PORT SHOWN, STBD SIM. & OPP.
 SCALE: 1/2"=1'-0"

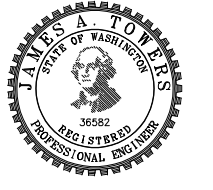
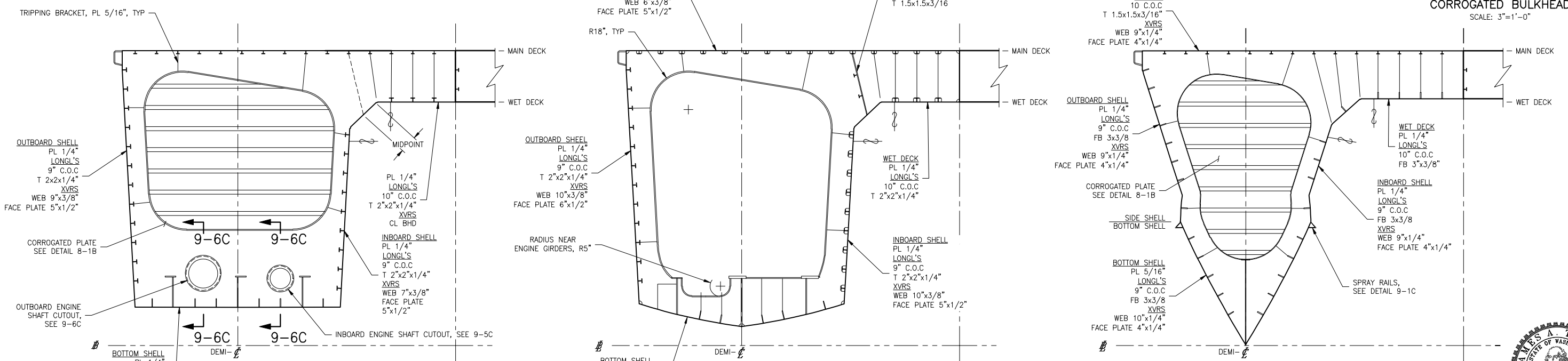
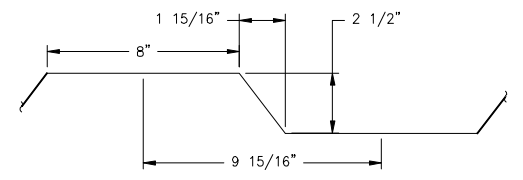
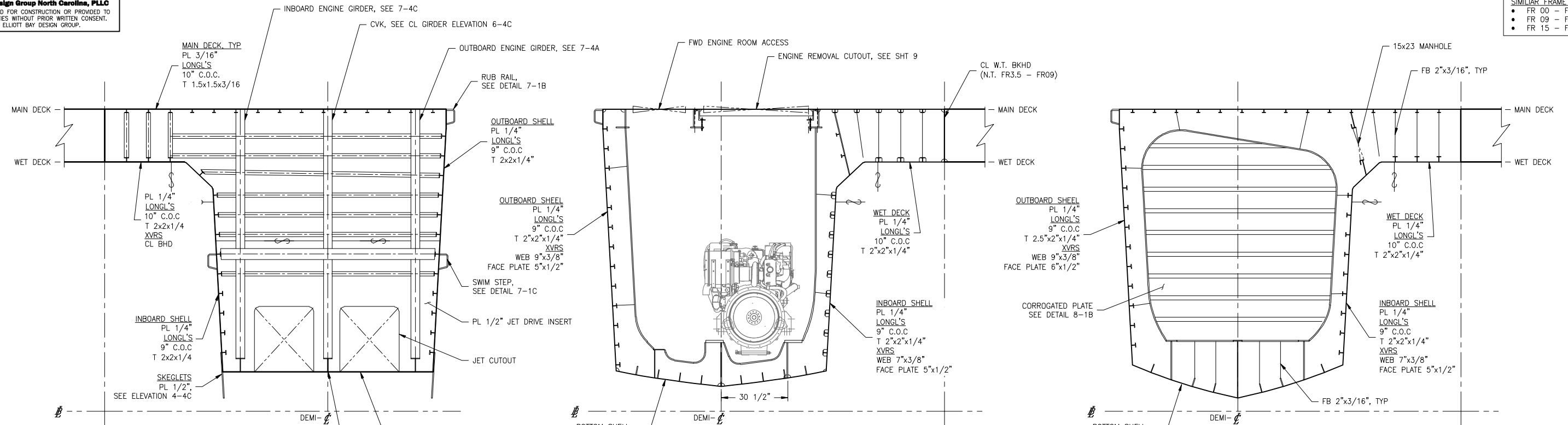


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SCALE	AS NOTED	FILE NAME	16109-003-120-0-	SHEET	7 OF 9

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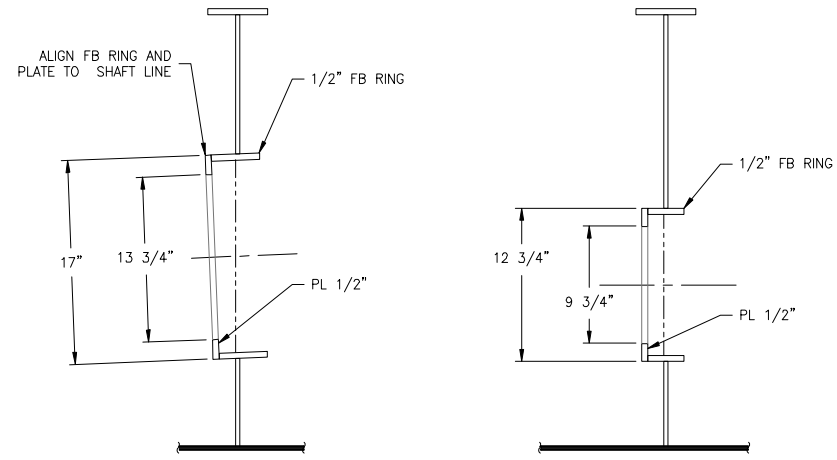
SIMILAR FRAME SCANTLINGS
 • FR 00 - FR 8
 • FR 09 - FR 14
 • FR 15 - FR 23



SIZE	D	DWG NO.	16109-003-120-0	REV	-
SCALE	AS NOTED	FILE NAME	16109-003-120-0	SHEET	8 OF 9

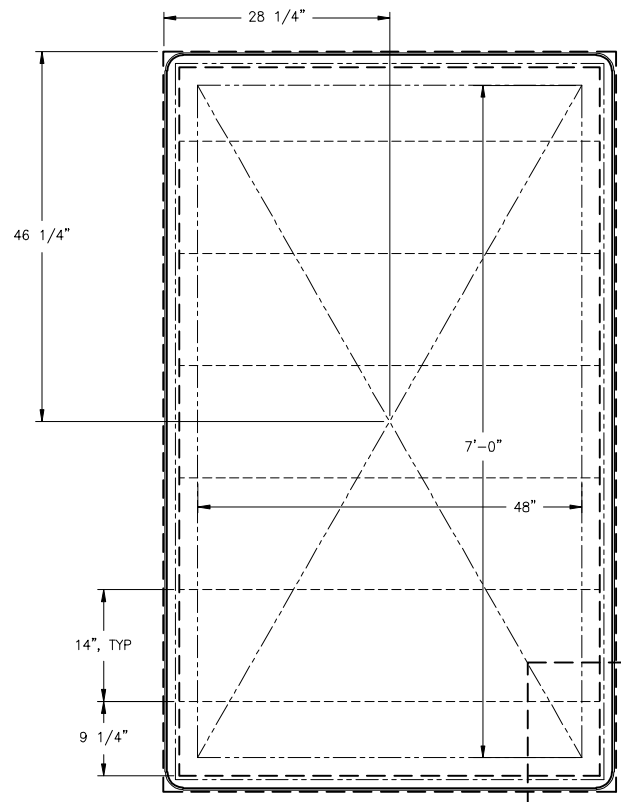
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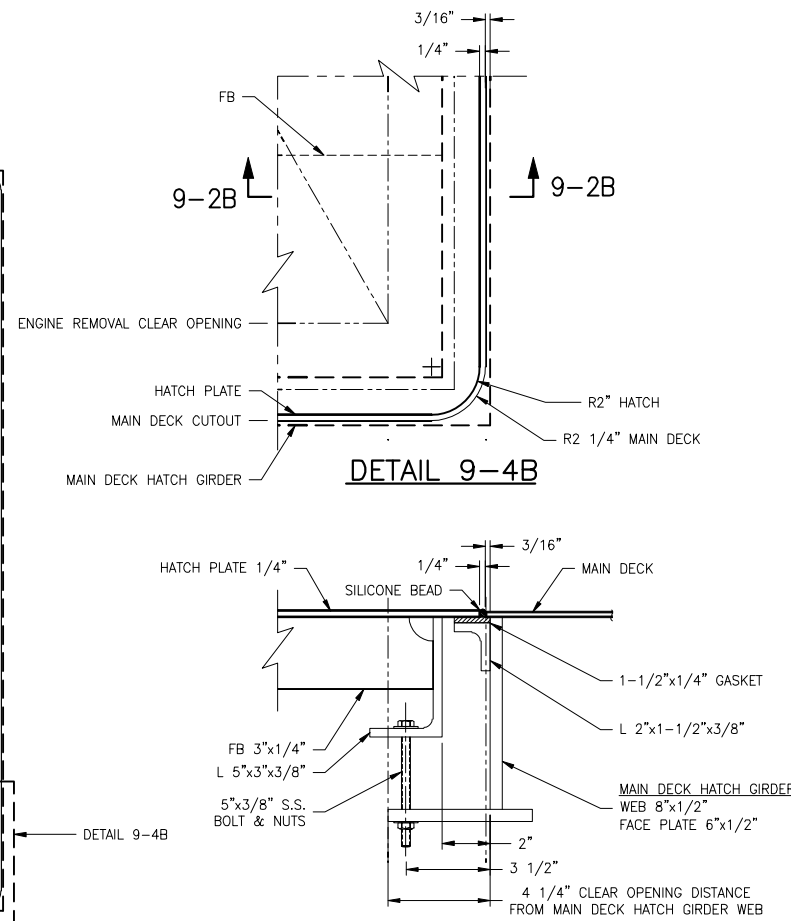


ELEVATION 9-6C
 OUTBOARD ENGINE SHAFT CUTOUT
 AT FR 3.5, SEE REF 4
 SCALE: 1-1/2"=1'-0"

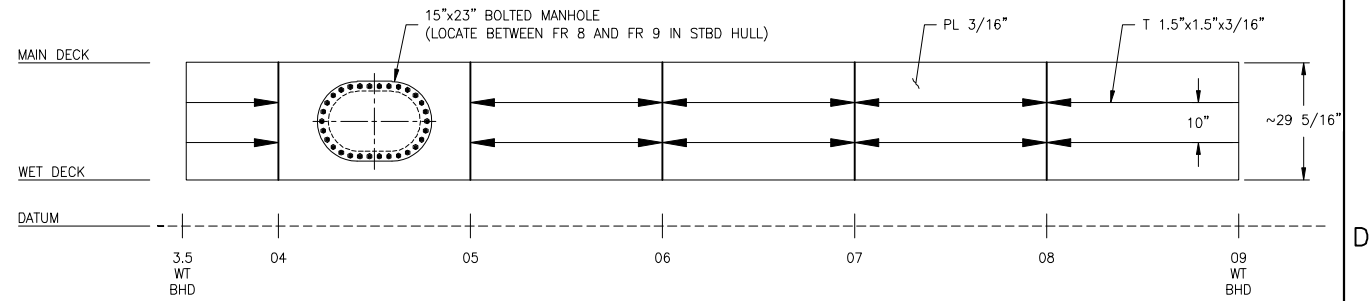
ELEVATION 9-5C
 INBOARD ENGINE SHAFT CUTOUT
 AT FR 3.5, SEE REF 4
 SCALE: 1-1/2"=1'-0"



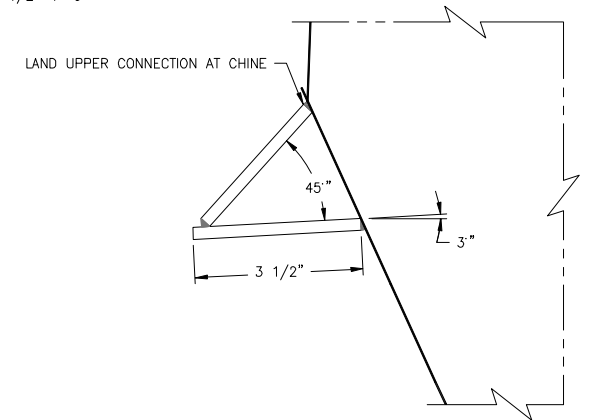
PLAN 9-5A
 TYP ENGINE ROOM ACCESS HATCH
 TYPICAL 4 PLACES
 SCALE: 1"=1'-0"



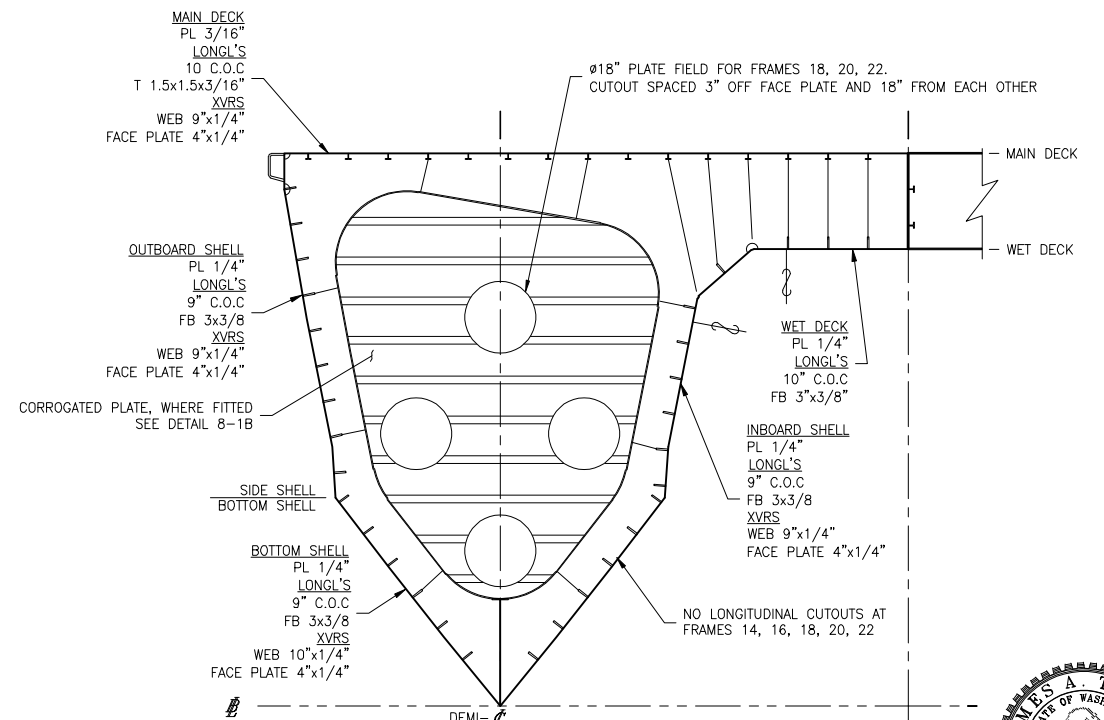
SECTION 9-4A
 WATERTIGHT HATCH STRUCTURE
 SCALE: 3"=1'-0"



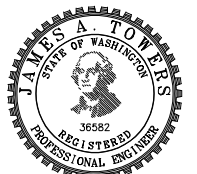
ELEVATION 9-2D
 ENGINE ROOM LONG'L W.T. BULKHEAD
 PORT HULL, AT DEMI-HULL CL LKG TO VESSEL CL
 STBD HULL SIM & OPP EXCEPT FOR HATCH LOCATION
 SCALE: 1/2"=1'-0"



DETAIL 9-1C
 SPRAY RAIL AT FR 20
 PORT/OUTBOARD LOOKING FWD, PORT/INBOARD SIM. & OPP
 SEE REF 1 FOR DETAILED DESCRIPTION
 SCALE: 6"=1'-0"



SECTION 9-2A
 FRAME 18
 PORT LOOKING FWD, STBD SIM. & OPP
 SCALE: 1/2"=1'-0"



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SCALE	AS NOTED	FILE NAME	16109-003-120-0-	SHEET	9 OF 9

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