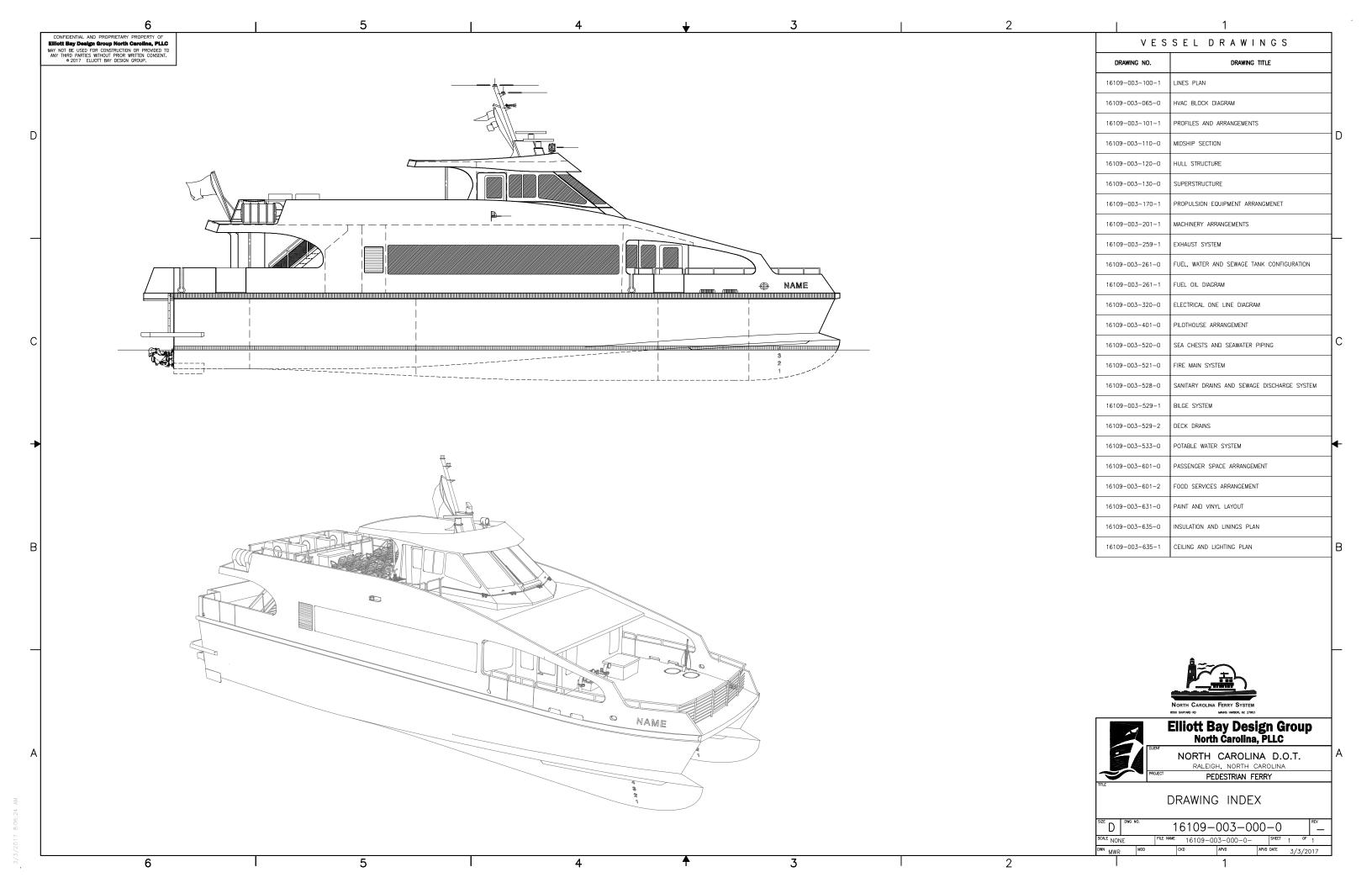
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SYMBOLS LIST				
AF	AXIAL FAN			
PLA	PLA CEILING-RECESSED AC / HEAT PUMP UNIT			
	EXHAUST AIR DUCT			
	SUPPLY AIR DUCT			
	RETURN/EXHAUST GRILL			
$[\times]$	SUPPLY DIFFUSER			
	LOUVER OR DEMISTER			
<u> </u>	LOUVER WITH WEATHER TIGHT COVER			
XXX _	CFM TO OR FROM TERMINAL			
	FIRE DAMPER			
	BALANCING DAMPER (MANUAL)			
	CENTRIFUGAL FAN			
<u> </u>	GOOSENECK VENT			
ф	BULKHEAD/TANK PENETRATION			
→	SUPPLY TERMINAL WITH SCREEN			
~	EXHAUST TERMINAL			
← ◀	VENT TERMINAL, INVERTED BALL CHECK			
VFD	VARIABLE FREQUENCY DRIVE			
FT~	PRESSURE TRANSDUCER			

E Q U I P M E N T L I S T								
QTY.	SERVICE	TYPE	MODEL	CAPACITY	DRIVE	REMARKS		
2	PILOTHOUSE HEAT PUMP	OUTDOOR UNIT	-	24,000 BTU/H	208/230VAC/1ø/60HZ 2.5KW (MAX)	-		
2	PILOTHOUSE HEAT PUMP	INDOOR UNIT	-	24,000 BTU/H	PWR FROM OUTDOOR UNIT	-		
4	PASSENGER SPACE HEAT PUMP	OUTDOOR UNIT	-	35,000 BTU/H	208/230VAC/1ø/60HZ 4.5KW (MAX)	-		
4	PASSENGER SPACE HEAT PUMP	INDOOR UNIT	-	35,000 BTU/H	PWR FROM OUTDOOR UNIT	-		
2	ENGINE ROOM SUPPLY FAN	AXIAL	-	10,400 CFM @ 0.7" H20 SP	208VAC/3ø/60HZ 5 HP	VARIABLE SPEED DRIVE SEE REF 1 FOR CONTROLS		
1	PASSENGER SPACE EXHAUST FAN	CENTRIFUGAL	-	600 CFM © 1.3" H20 SP	120V/1¢/60HZ 1.5 HP	-		
2	JET ROOM EXHAUST FAN	DC BLOWER	-	200 CFM © 1.5" H20 SP	24 VDC 8 AMP	-		
2	ENGINE ROOM INLET FIRE DAMPER	STAINLESS STEEL	-	27" × 27"	-	ELECTRICALLY ACTUATED CLOSES UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM		
2	ENGINE ROOM EXHAUST FIRE DAMPER	STAINLESS STEEL	-	27" × 20"	-	ELECTRICALLY ACTUATED CLOSES UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM		
2	MOISTURE ELIMINATOR	ALUMINUM	-	40" × 30"	-	-		

. ENGINE ROOM VENTILATION FANS SHALL SHUT DOWN AND FIRE DAMPERS SHALL CLOSE AUTOMATICALLY UPON RELEASE OF THE FIRE SUPPRESSION

2. VENTILATION FANS SHALL BE RESILIENTLY MOUNTED AND FLEX CONNECTED

13. ENGINE ROOM FANS SHALL BE CONTROLLED WITH VARIABLE SPEED DRIVES TO MAINTAIN A PREDETERMINED POSITIVE PRESSURE. SEE REFERENCE 1

4. ALL DUCT WORK SHALL BE THIN WALL ALUMINUM TUBE.

5. ENGINE ROOM SUPPLY SHALL BE FITTED WITH A MIST ELIMINATOR TO PREVENT WATER INGRESS INTO THE ENGINE ROOM.

6. PROVIDE DIRECTIONAL VANES AT ENGINE ROOM AIR SUPPLY TO DIRECT AIR FORWARD TOWARDS THE GENERATOR.

. PROVIDE BAFFLE TO PREVENT EXCESS WATER OR SPRAY ENTERING ENGINE ROOM. EQUIP WITH DRAIN BELOW MOISTURE ELIMINATOR.

18. LOCATE EXHAUST DAMPER AT MAIN DECK. PROVIDE BOLTED ACCESS HATCH IN EXHAUST AIR TRUNK.

19. PASSENGER SPACE HEAT PUMPS AND EXHAUST FAN SHALL BE FITTED WITH EMERGENCY SHUT DOWN LOCATED IN THE PILOTHOUSE.

REVISION HISTORY DESCRIPTION

GENERAL NOTES

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH 46 CFR SUBCHAPTER T REGULATIONS.

THIS DRAWING IS DIAGRAMMATIC AND DOES NOT REPRESENT A COMPLETE DETAILED DESIGN. EQUIPMENT LAYOUT IN A GIVEN AREA IS APPROXIMATE.
THE CONTRACTOR SHALL DEVELOP A DETAILED DESIGN THAT PROVIDES A
FULLY FUNCTIONAL ARRANGEMENT SUITABLE FOR INSTALLATION, TAKING INTO ACCOUNT ALL NECESSARY SYSTEM INTERFACES AND INTERFERENCES. DIMENSIONS SHALL BE VERIFIED FROM THE SHIP AND MANUFACTURERS' CERTIFIED DRAWINGS AS APPROPRIATE.

FAN SELECTIONS AND MOTOR RATINGS ARE BASED ON ESTIMATED ROUTING AND CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING ACTUAL FAN PRESSURE AND POWER REQUIREMENTS BASED UPON THE AS-BUILT SYSTEM.

FANS SHALL BE LABELED WITH NAMEPLATES IDENTIFYING THE UNIT, THE FAN VOLUME IN CUBIC FEET PER MINUTE (CFM), STATIC PRESSURE RATING AT SPECIFIED VOLUME, MOTOR FULL LOAD AMPERAGE, FAN SPEED, AND MOTOR HORSEPOWER. AIRFLOW DIRECTION SHALL BE IDENTIFIED ON THE FAN EXTERIOR BODY.

VOLUME FLOW RATES SHOWN ON THE DIAGRAM ARE MAXIMUM DESIGN FLOW RATES, EXPRESSED IN CUBIC FEET PER MINUTE.

6. IN GENERAL AIR VELOCITIES SHALL BE LIMITED TO 2,000 FEET PER MINUTE. WHERE SPACE CONDITIONS NECESSITATE, LOCAL VELOCITIES MAY APPROACH 3000 FEET PER MINUTE.

WHERE FANS ARE NOT DUCTED AT ONE END, FIT NON-DUCTED END WITH A BELLMOUTH AND GUARD.

WEATHER LOUVERS SHALL BE ALUMINUM WITH STAINLESS STEEL SCREENS. LOUVERS SHALL BE REMOVABLE, HELD IN PLACE WITH STAINLESS STEEL FASTENERS. ACCOMMODATION INLET LOUVERS SHALL BE EQUIPPED WITH STAINLESS STEEL BUG SCREENS.

REFRIGERANT TUBING SHALL BE INSTALLED IN ACCORDANCE WITH THE HEAT PUMP MANUFACTURER'S REQUIREMENTS OR IN ACCORDANCE WITH THE STANDARD FOR COPPER REFRIGERANT PIPING GIVEN IN ASTM F1155-10 (2015) TABLE 19 AS APPLICABLE

10. FIRE DAMPERS SHALL BE EQUIPPED 165'F THERMAL TRIP DEVICES FOR AUTO-CLOSE IN CASE OF FIRE, FIRE DAMPERS SHALL BE EASILY ACCESSIBLE FOR SERVICE AND INSPECTION.

REFERENCES

1. 16109-003-802-0 CONTRACT SPECIFICATIONS



Elliott Bay Design Group North Carolina, PLLC

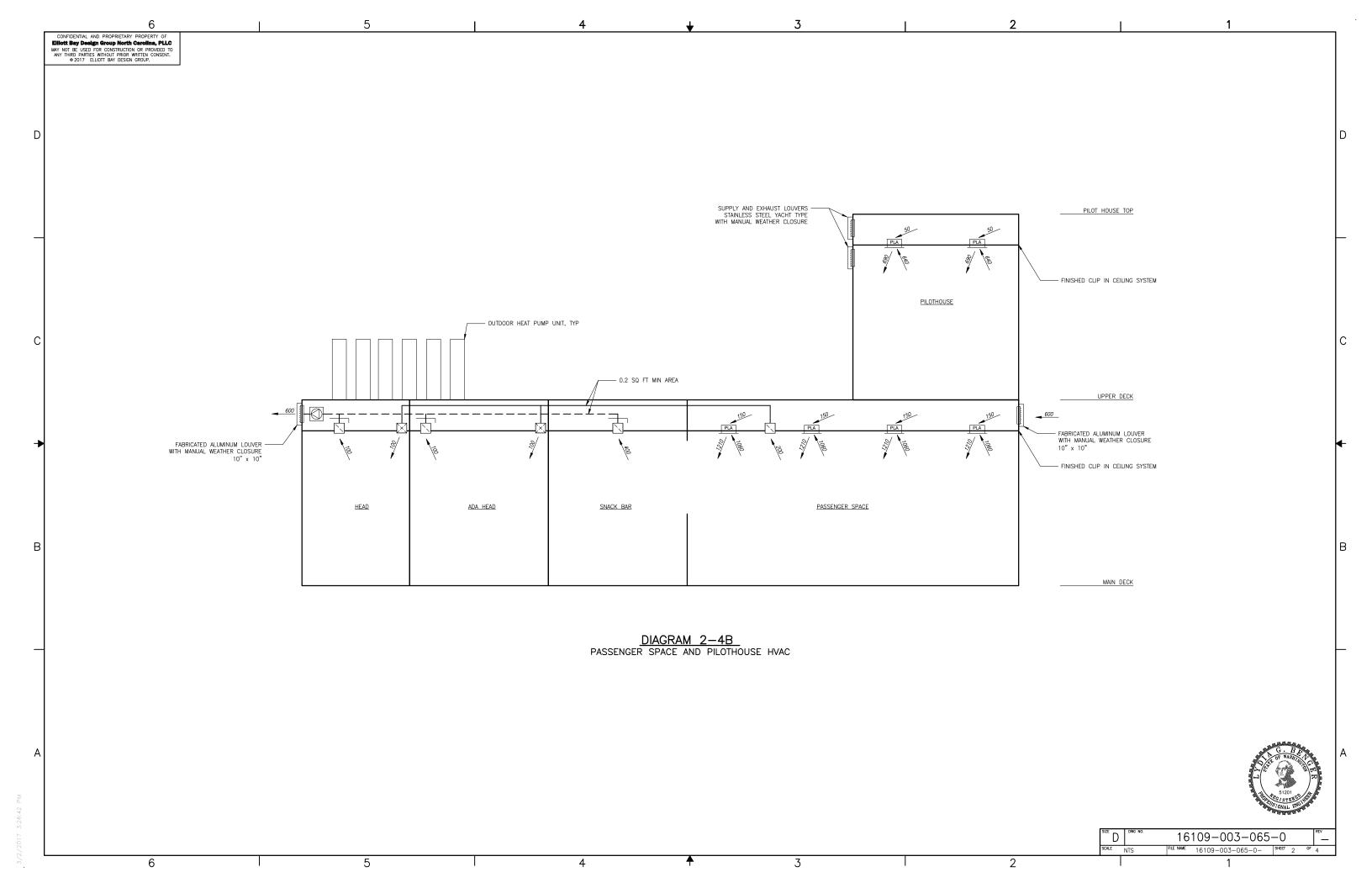
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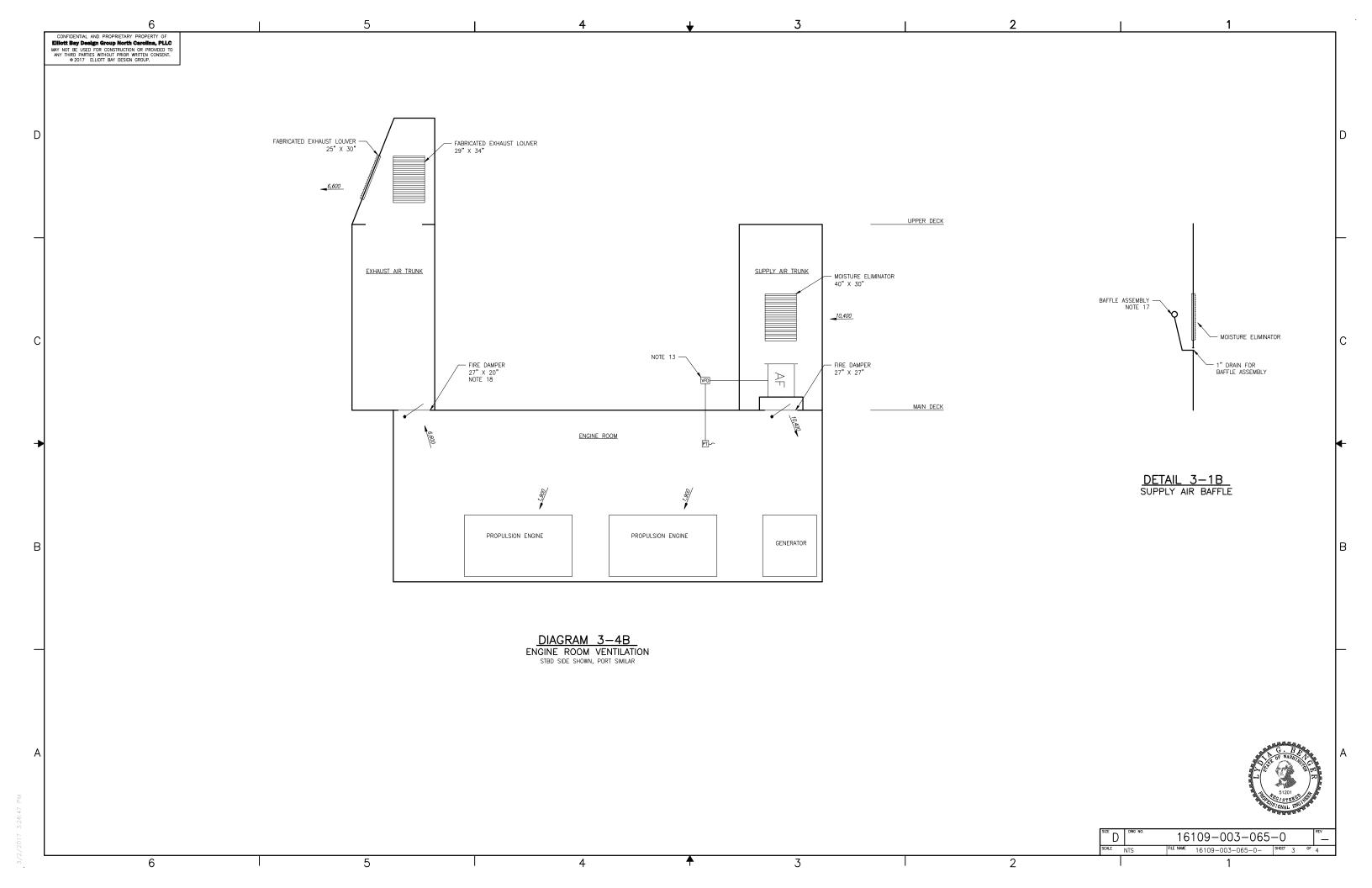
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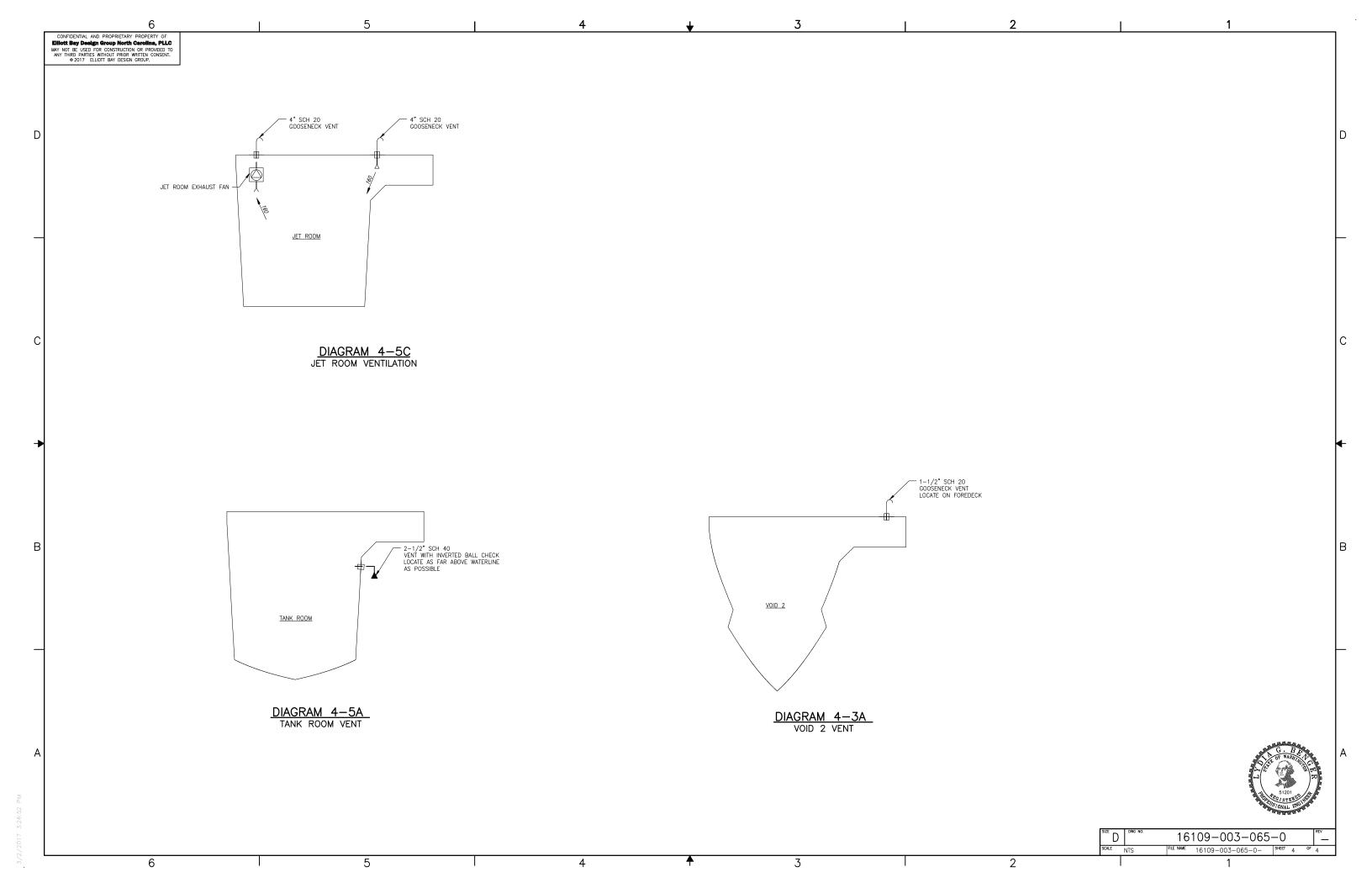
PEDESTRIAN FERRY

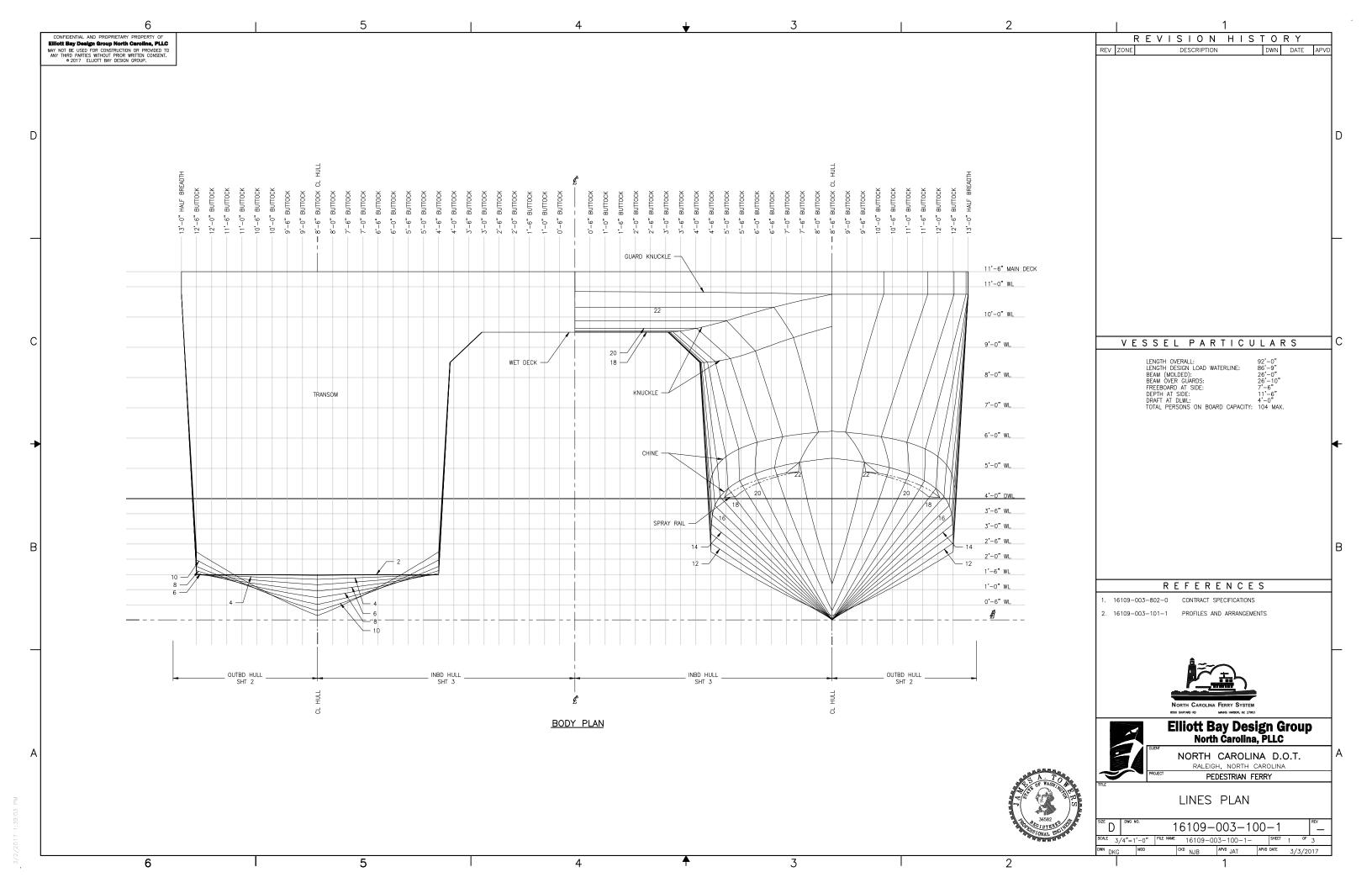
HVAC BLOCK DIAGRAM

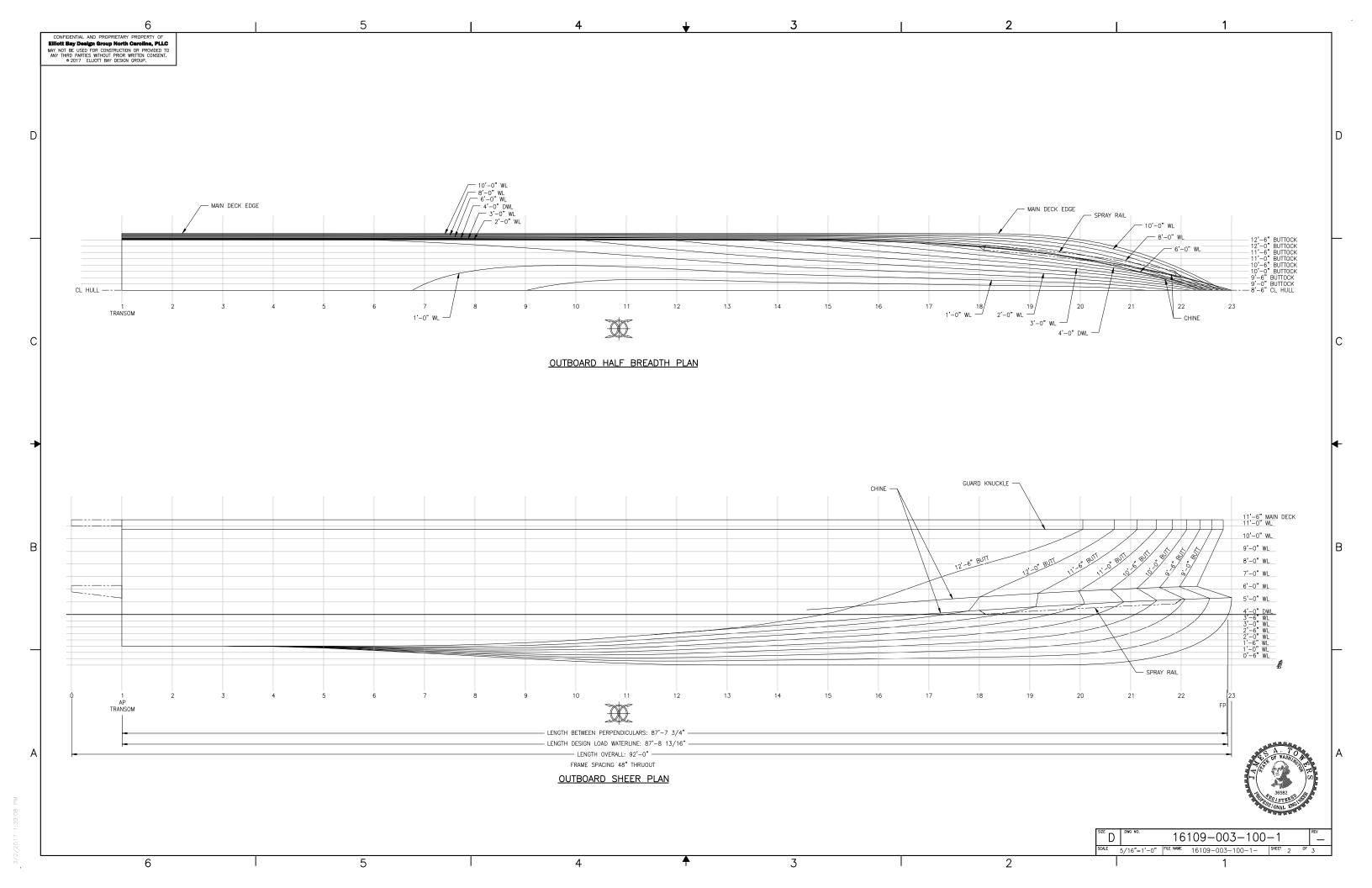
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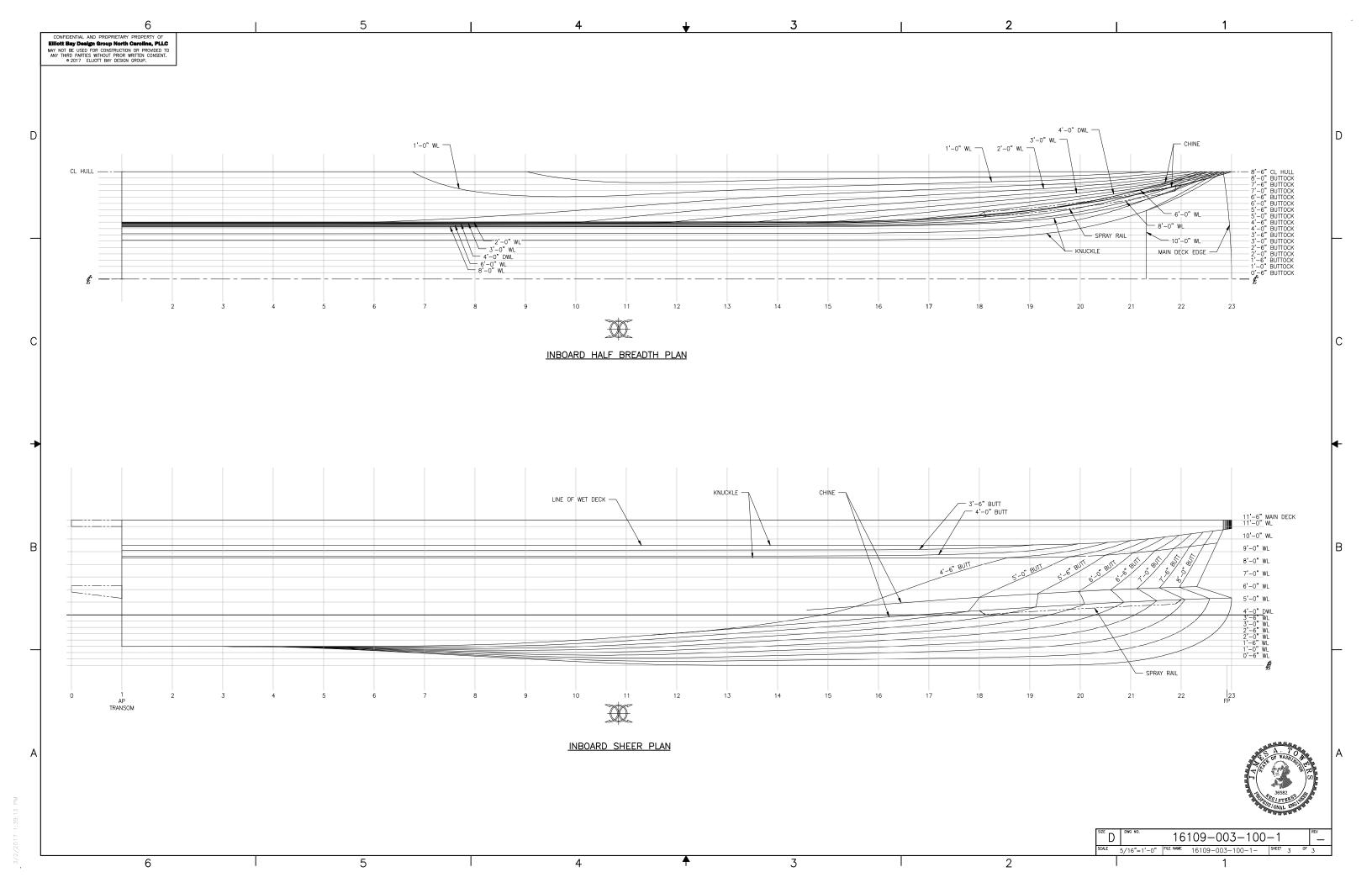


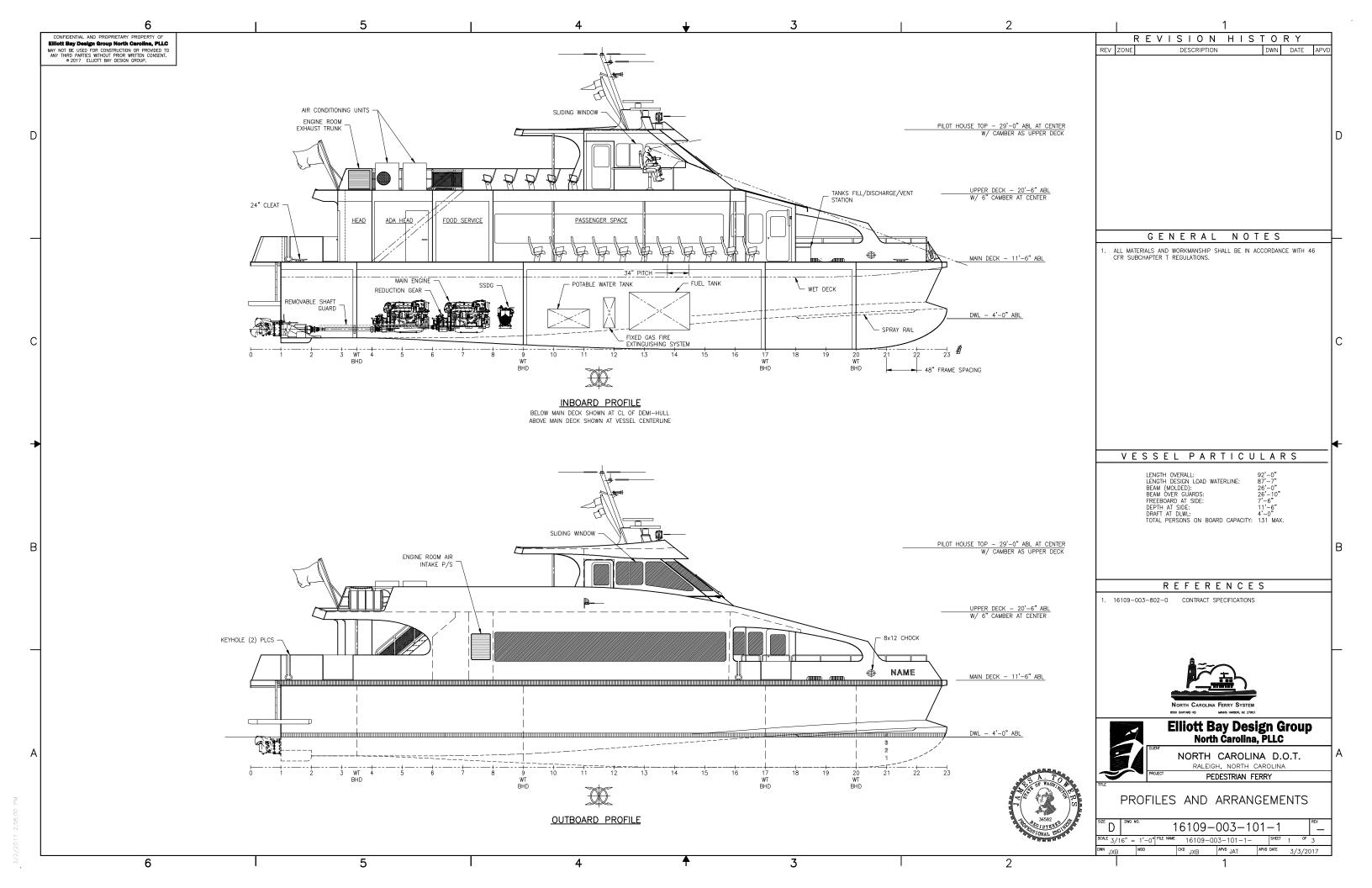


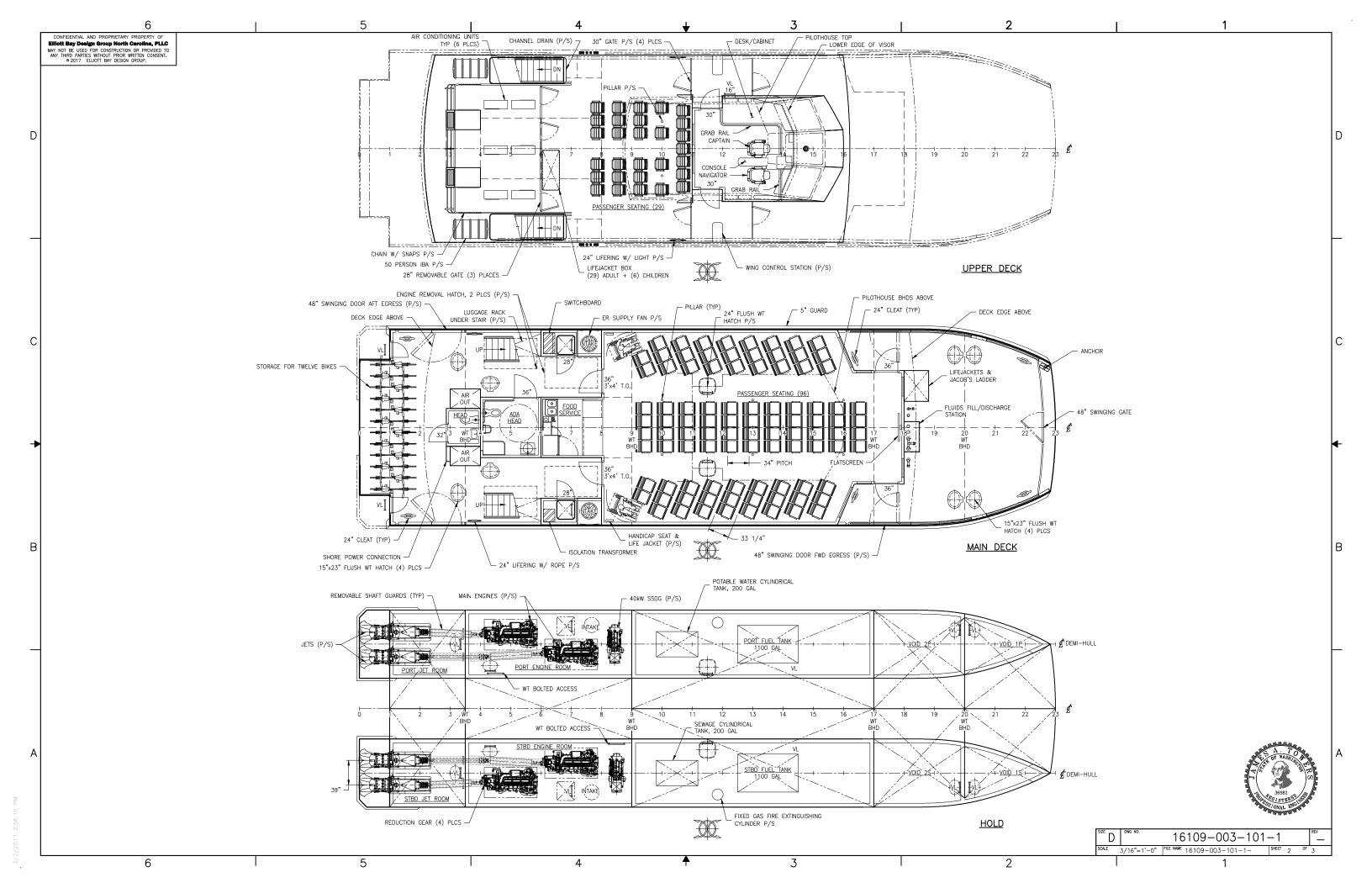


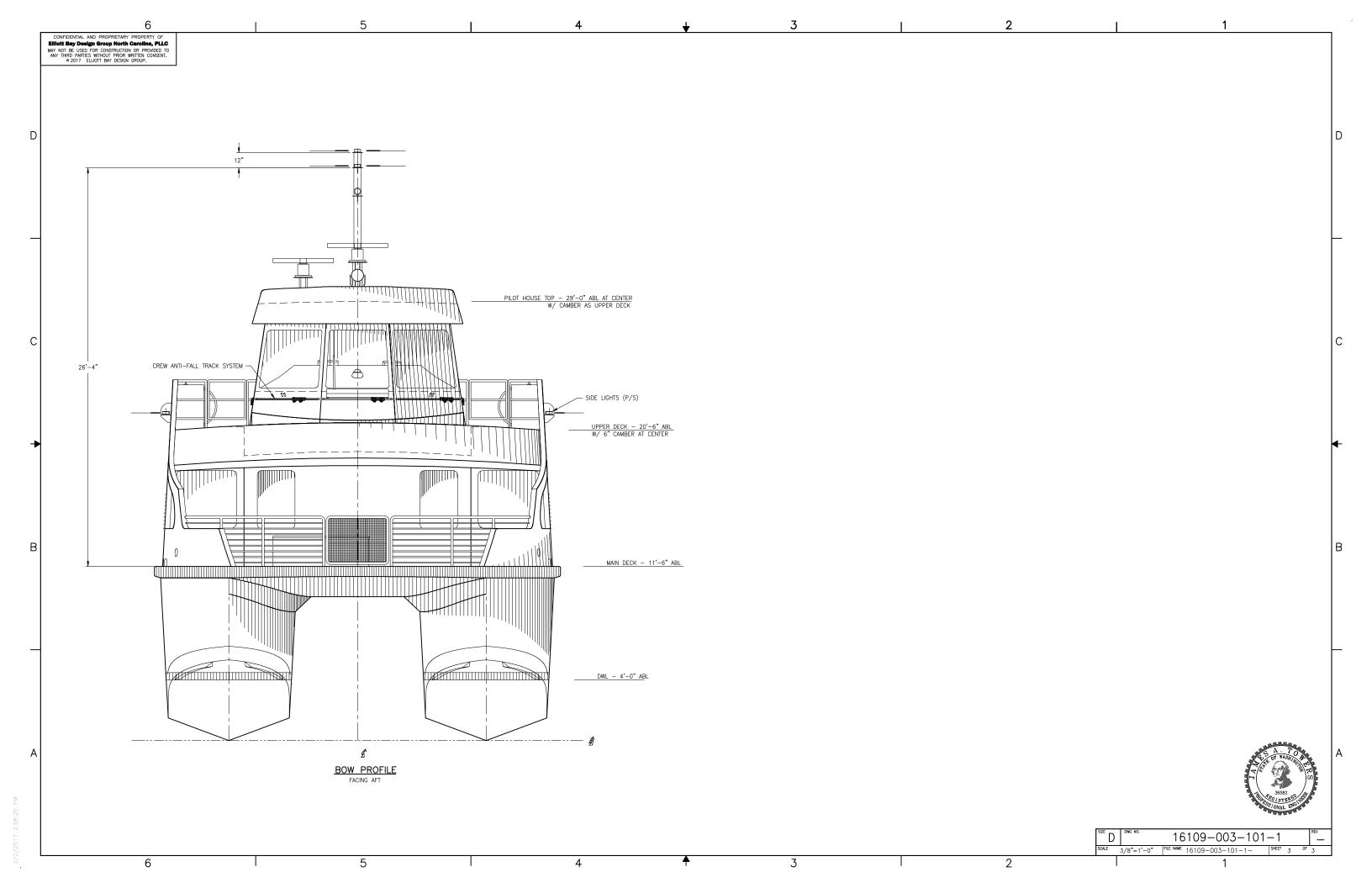


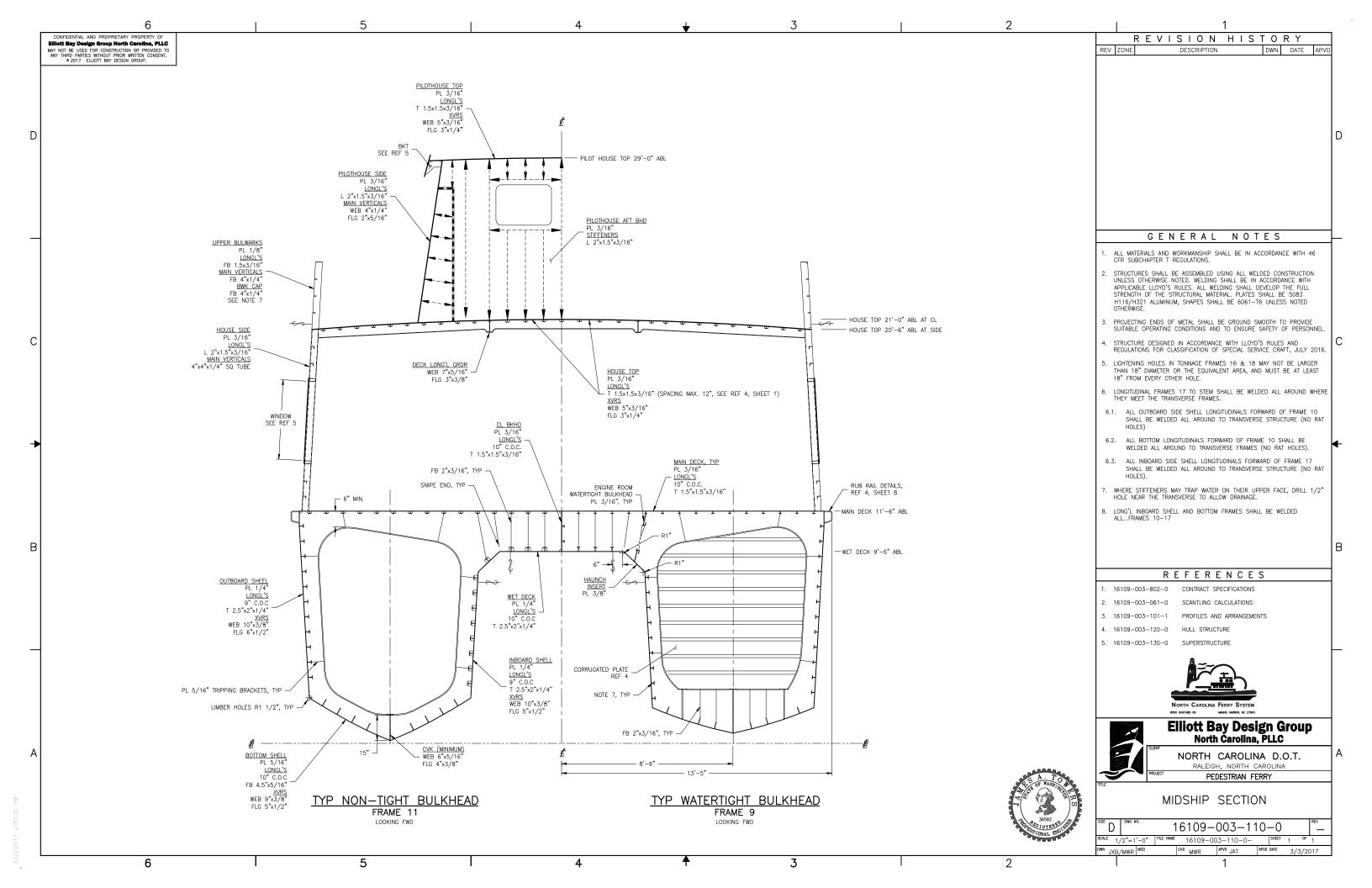


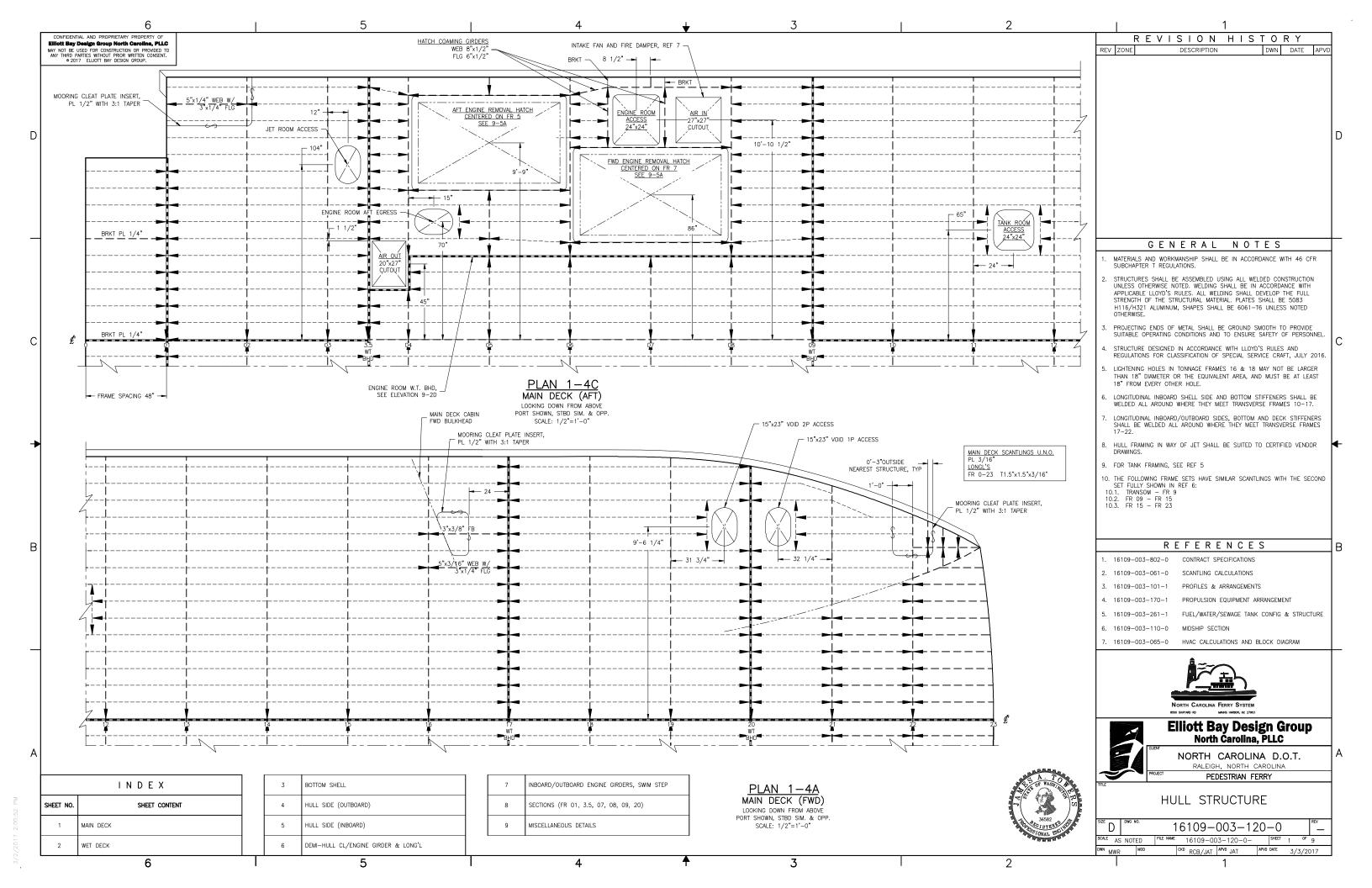


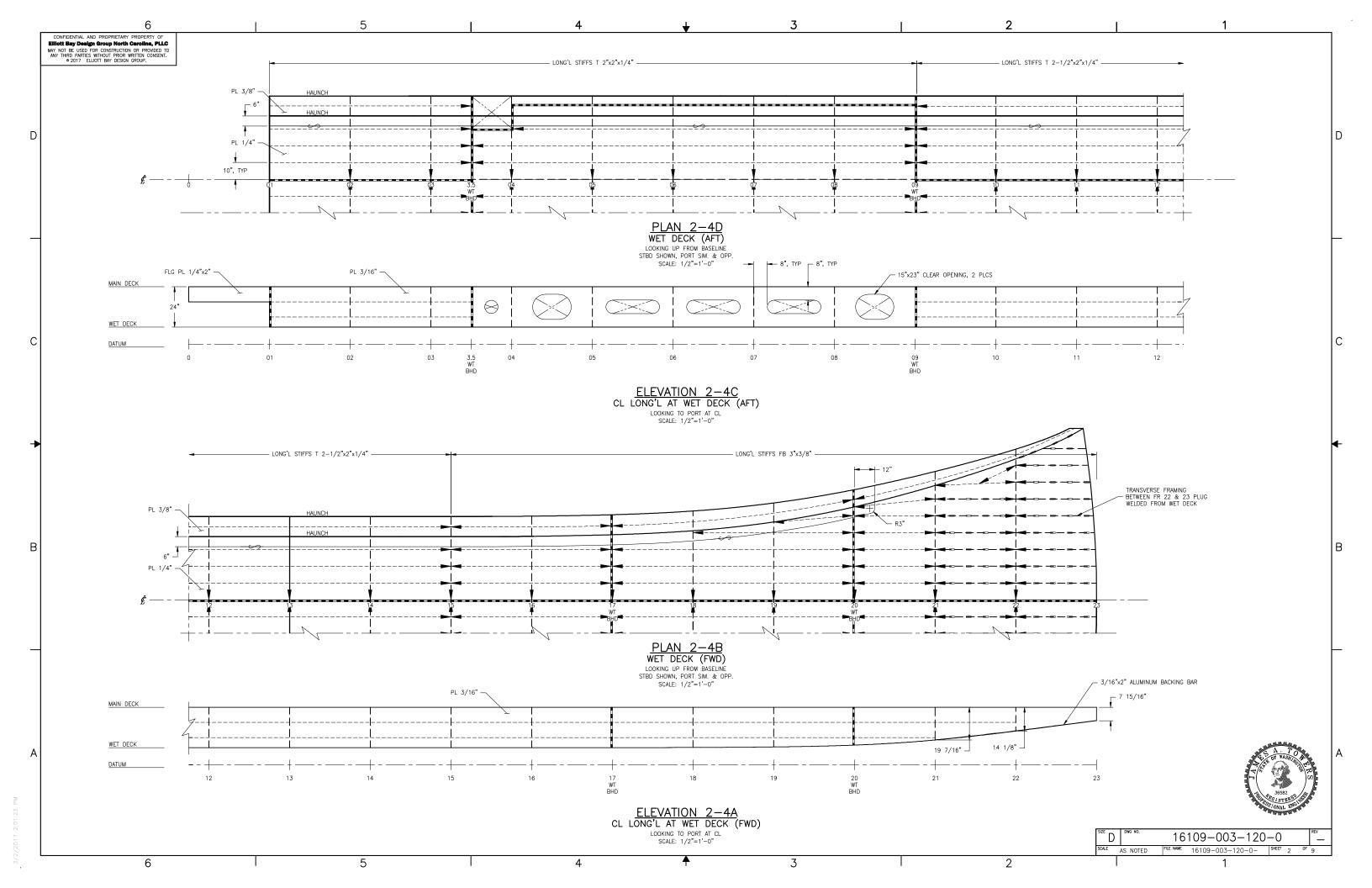


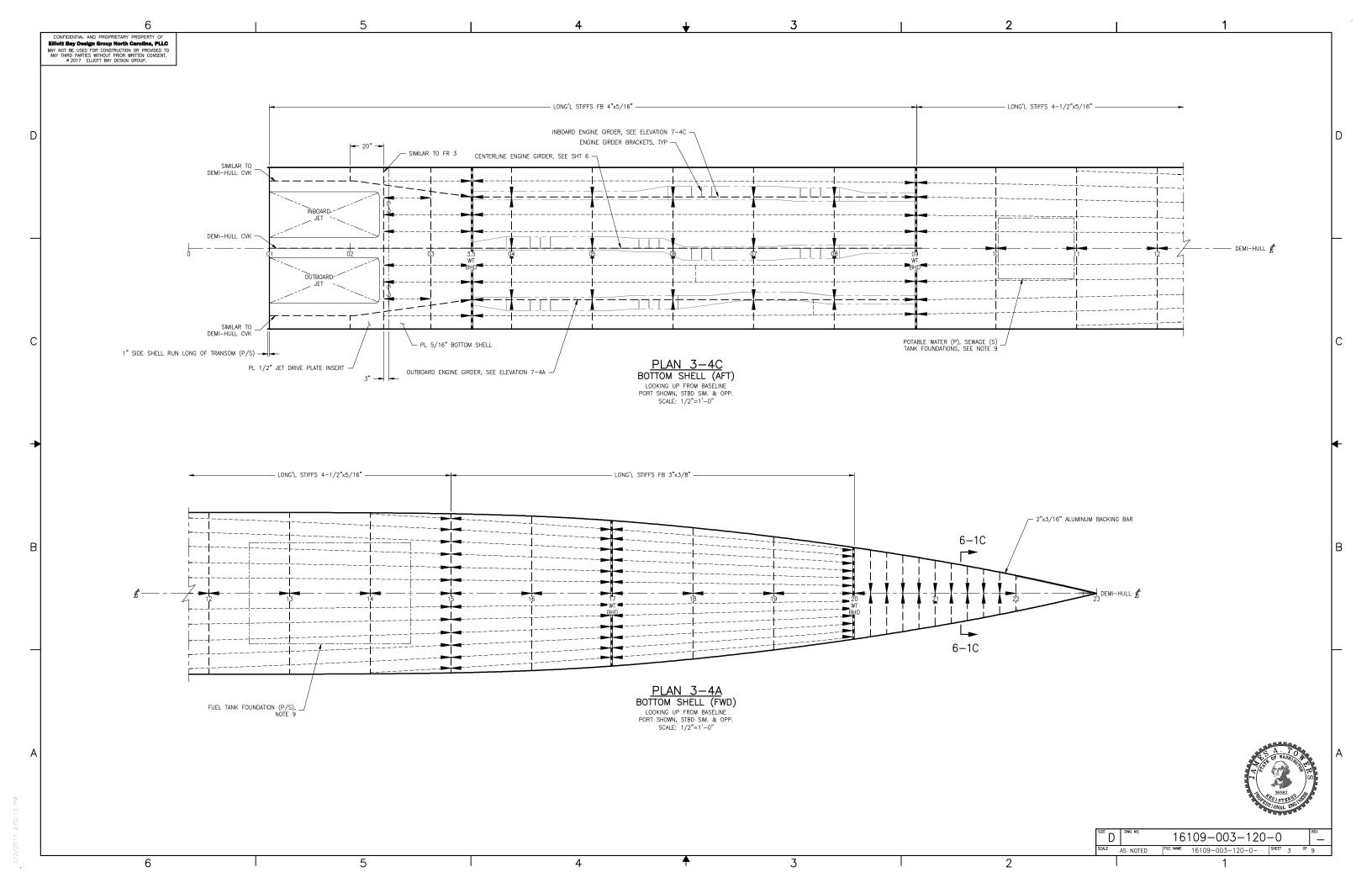


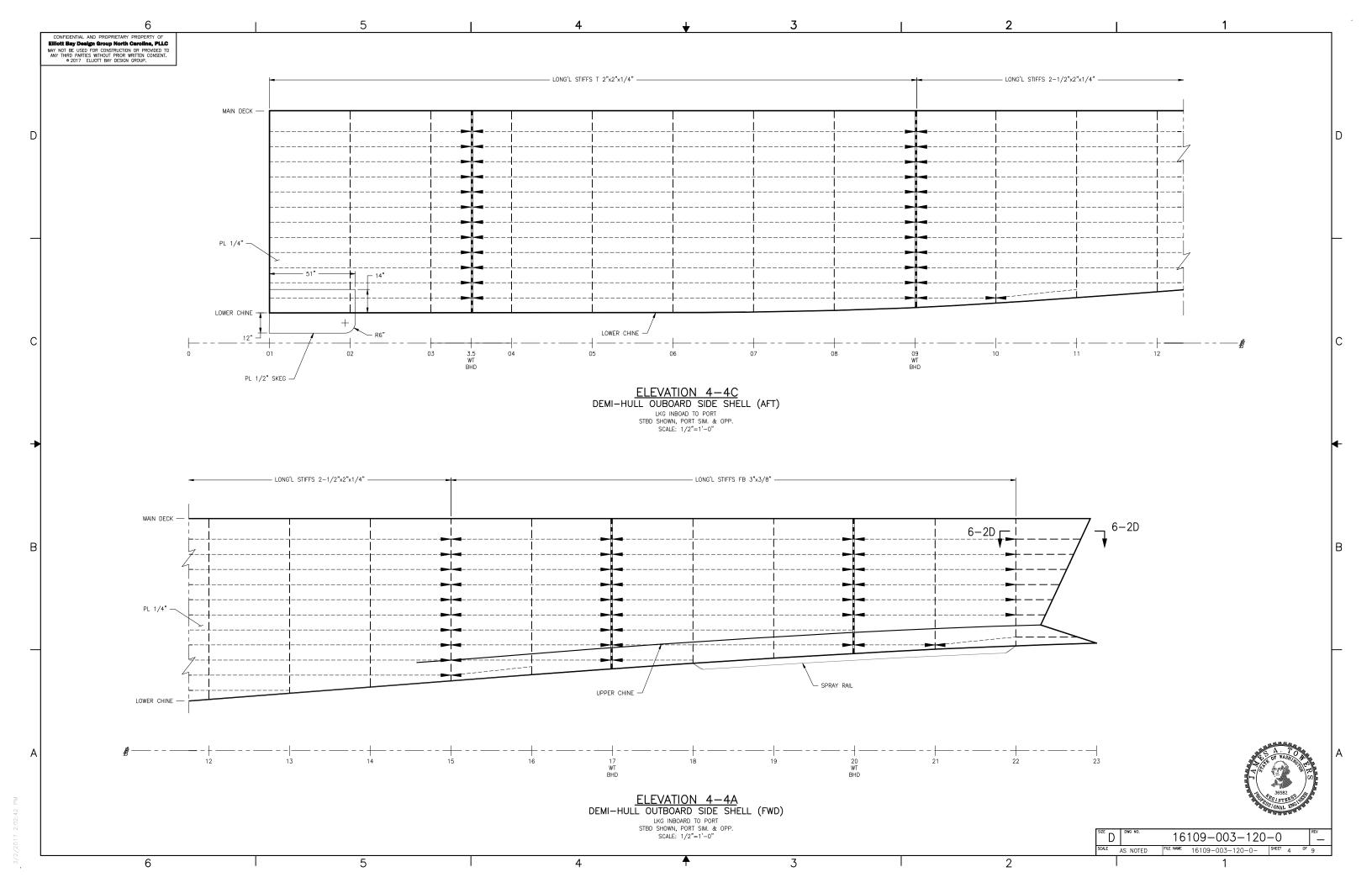


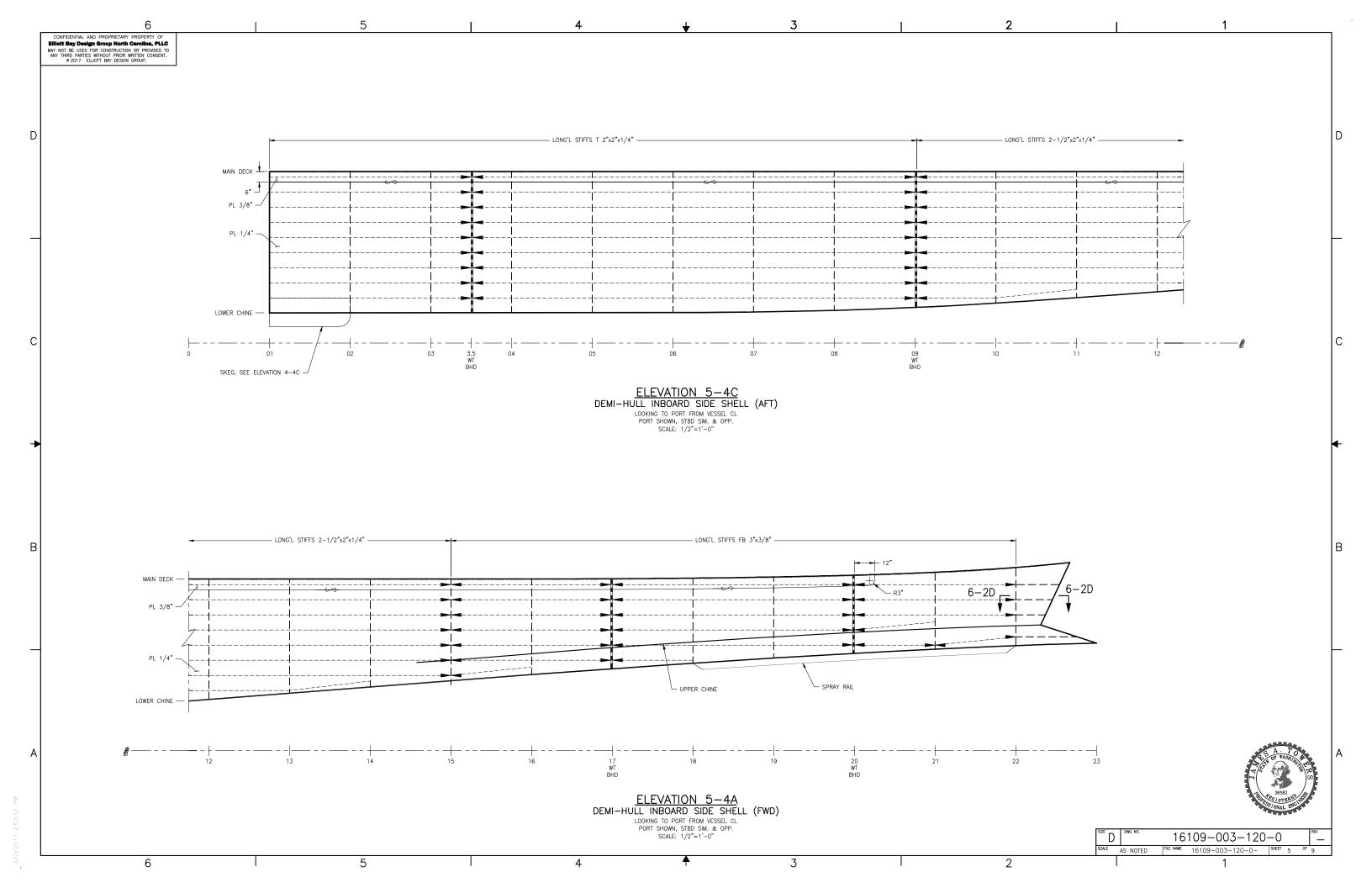


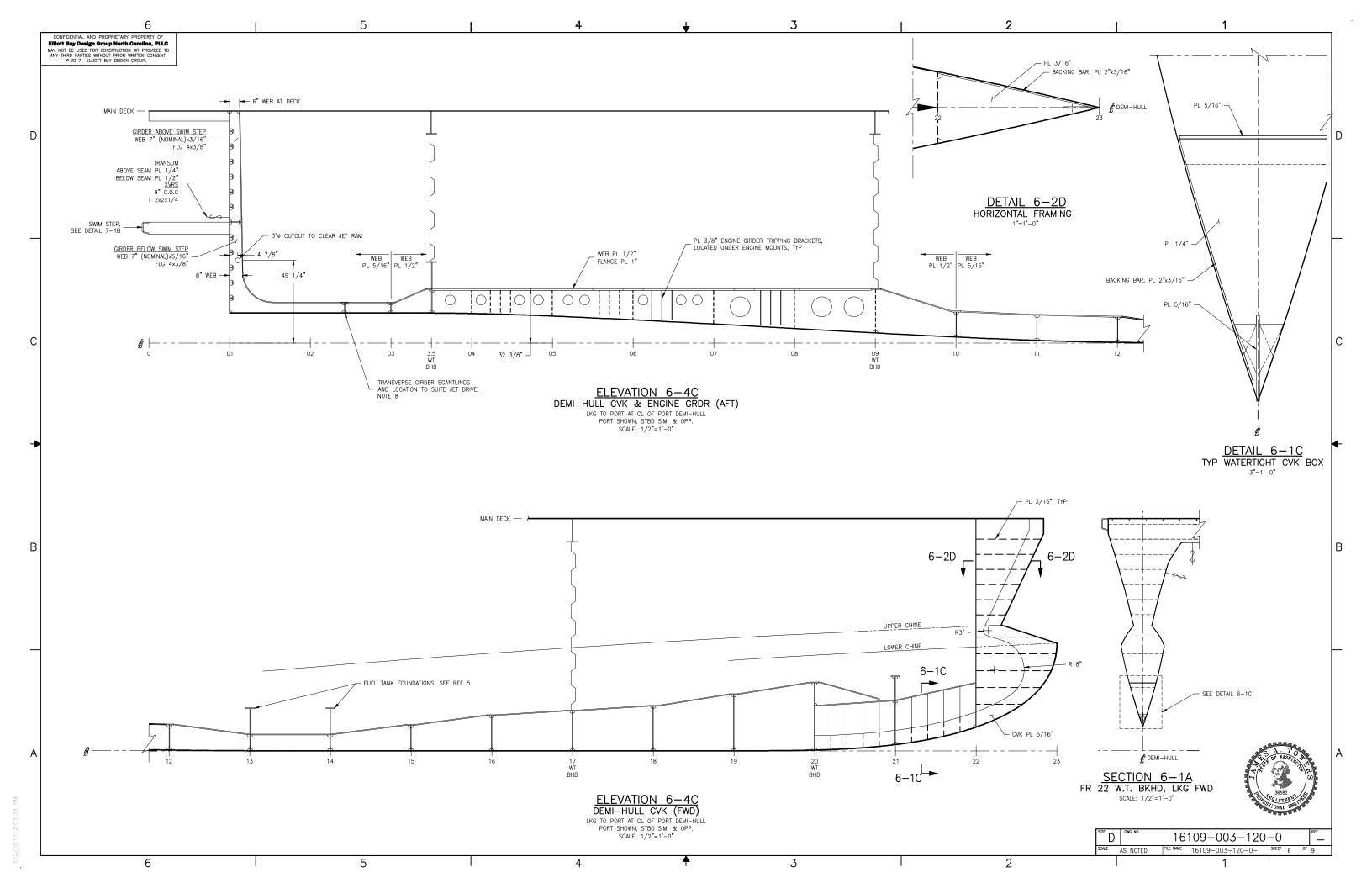


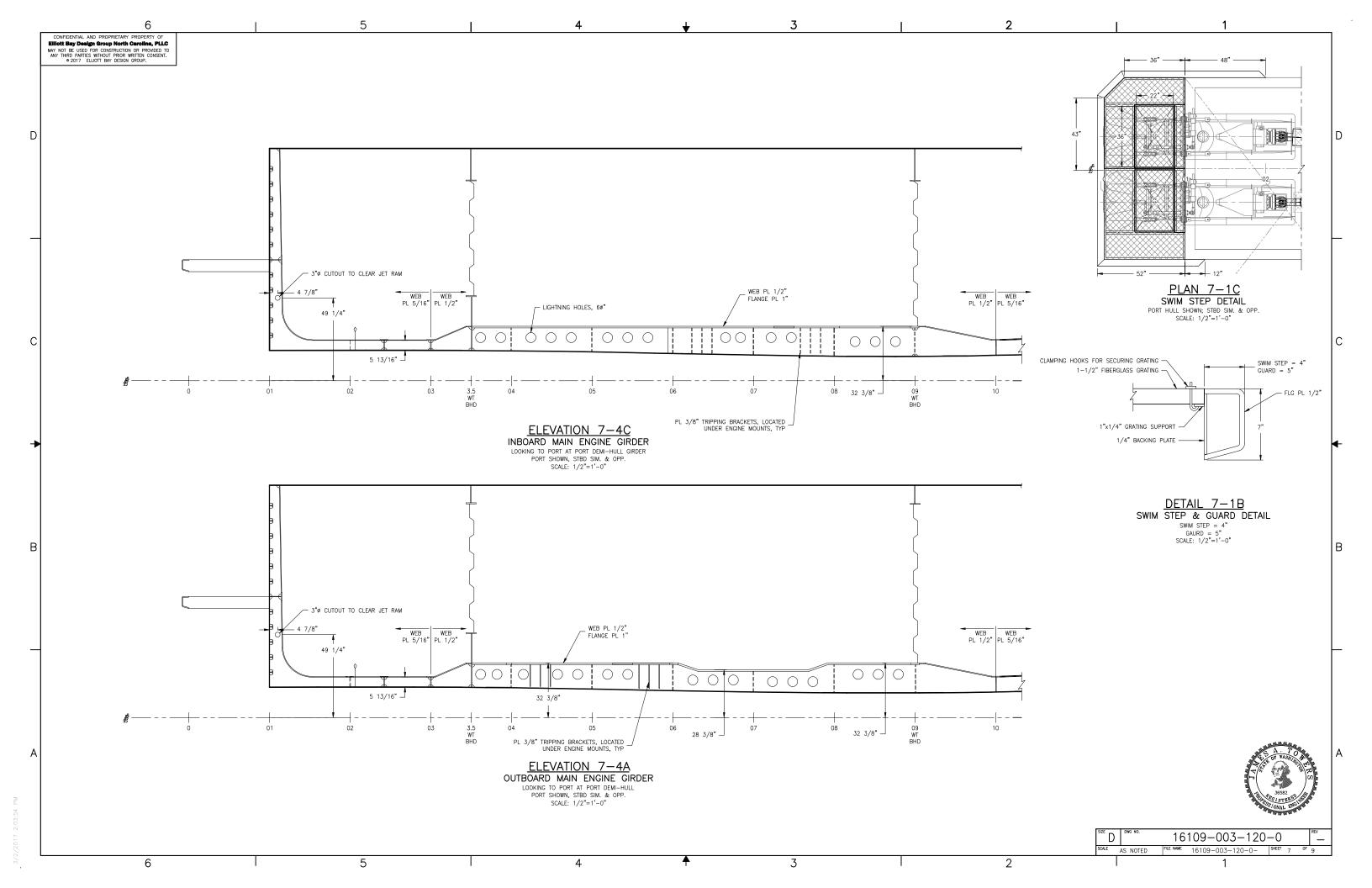


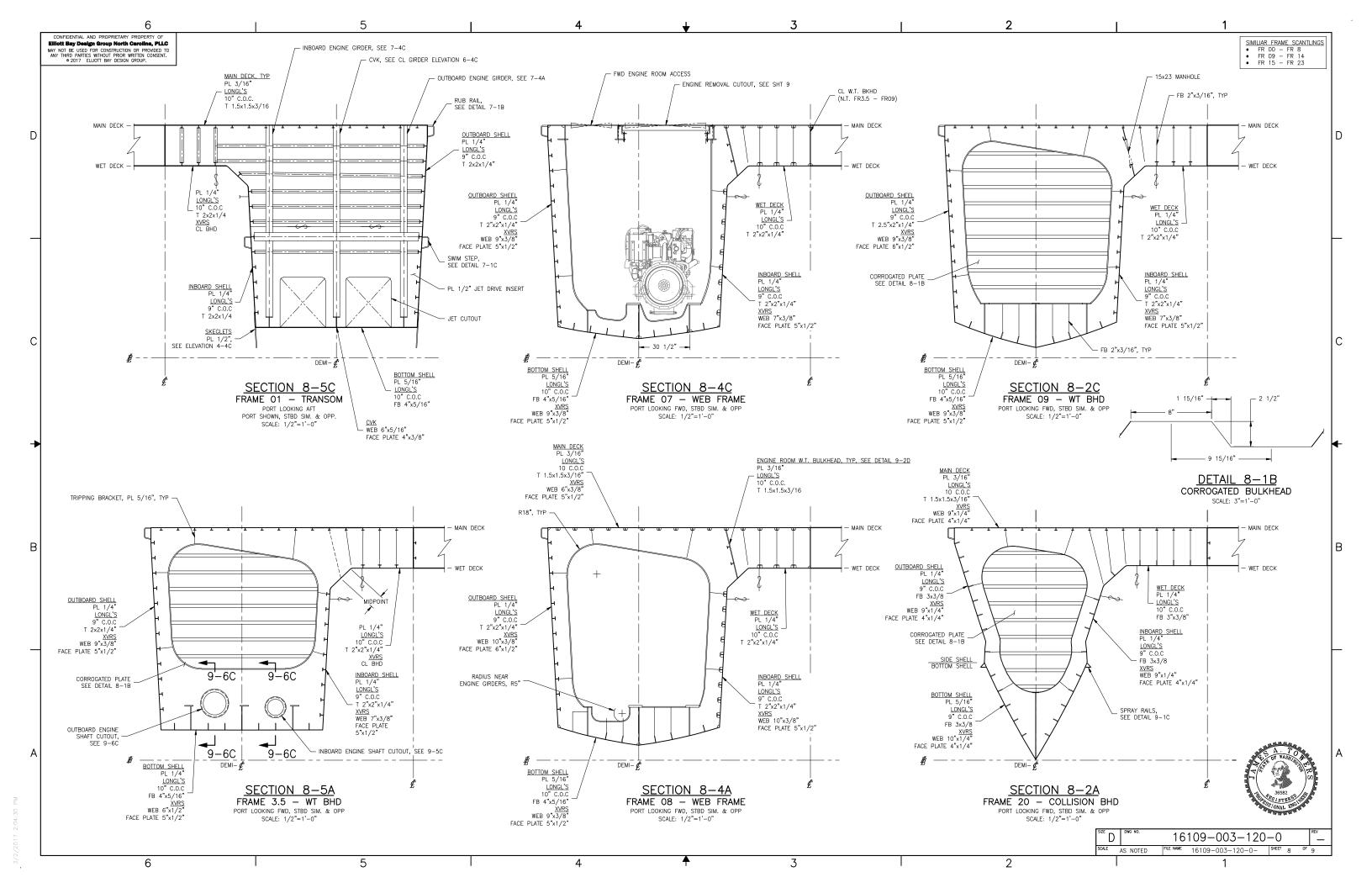


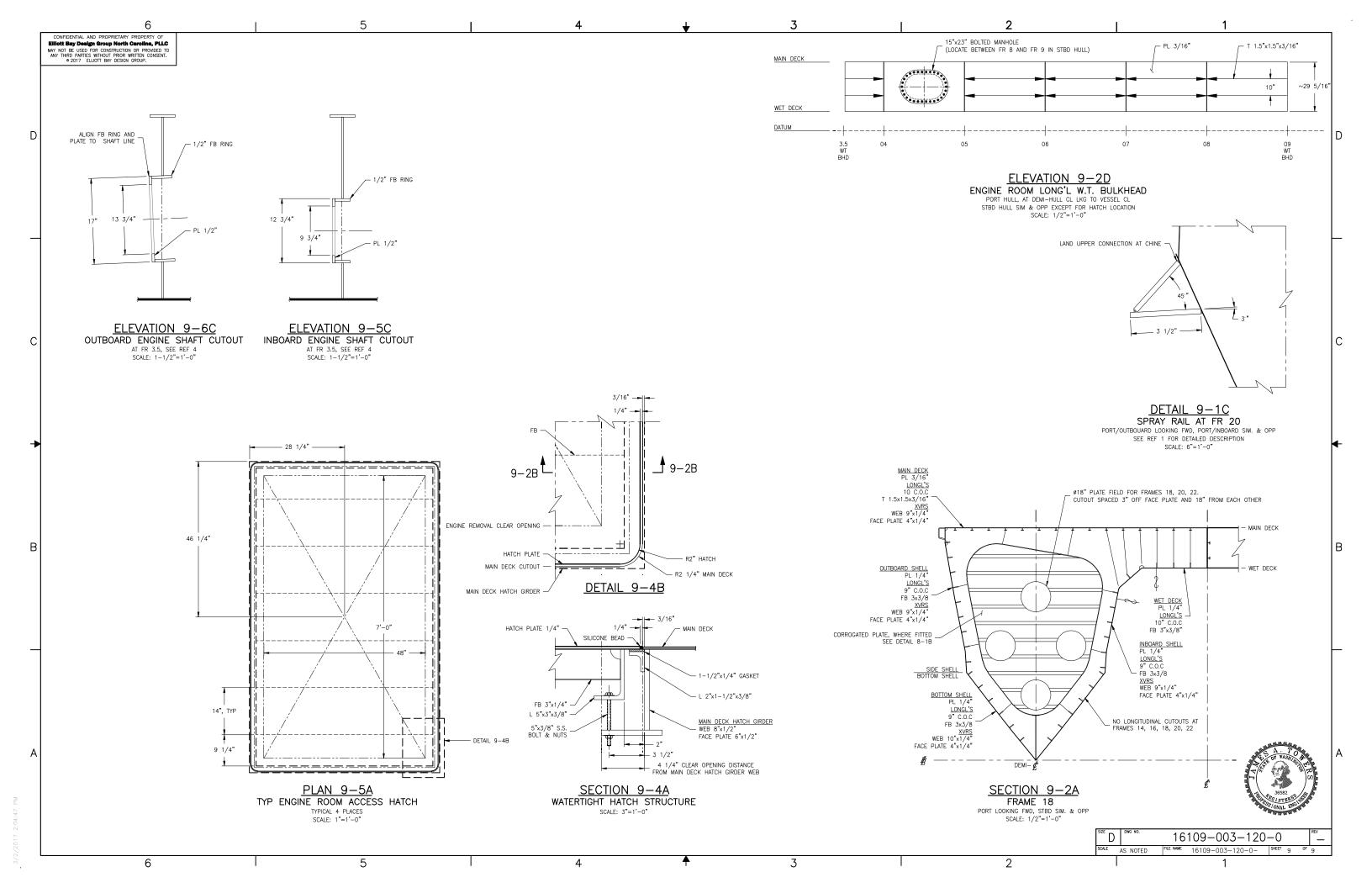


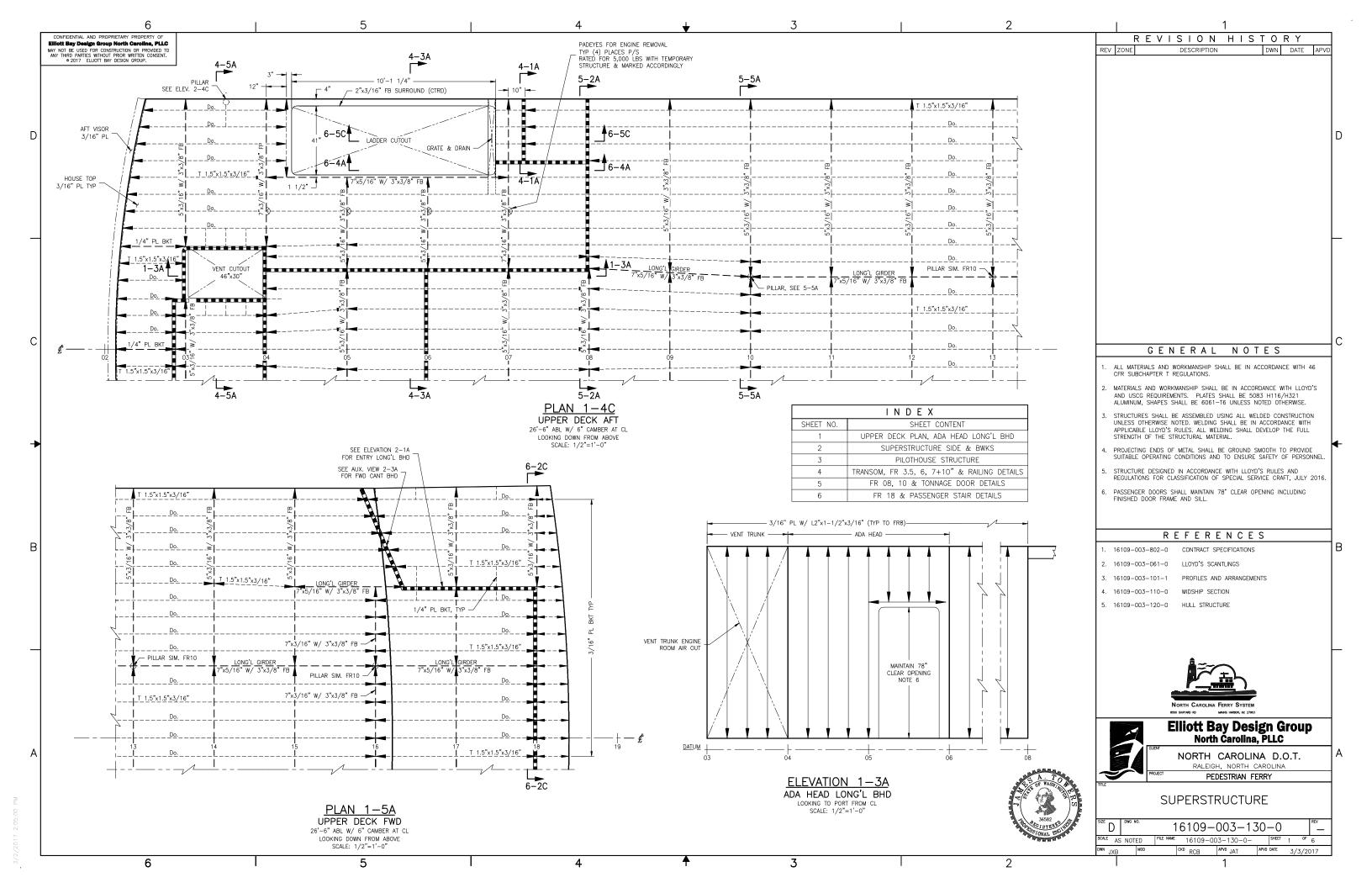


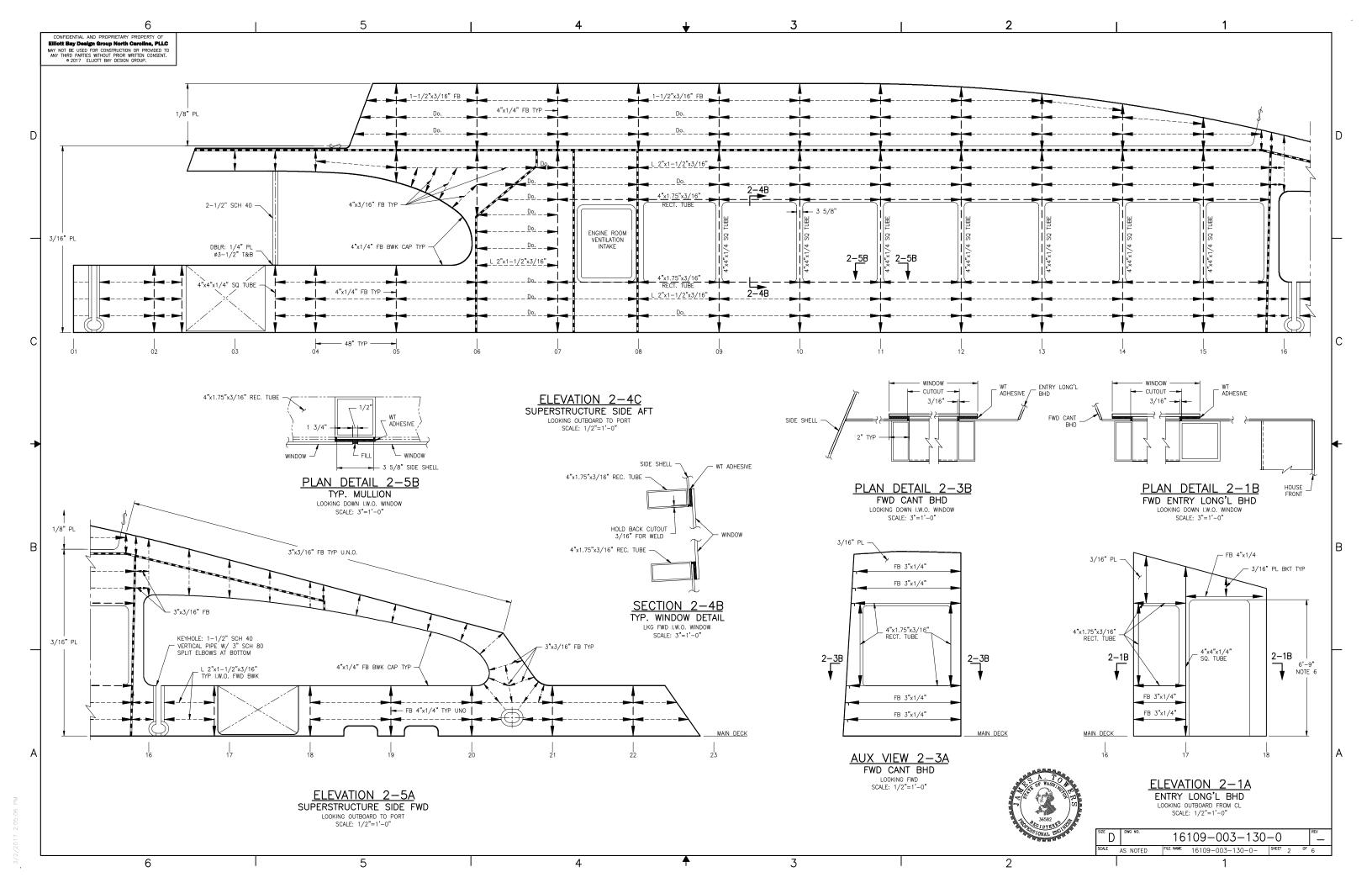


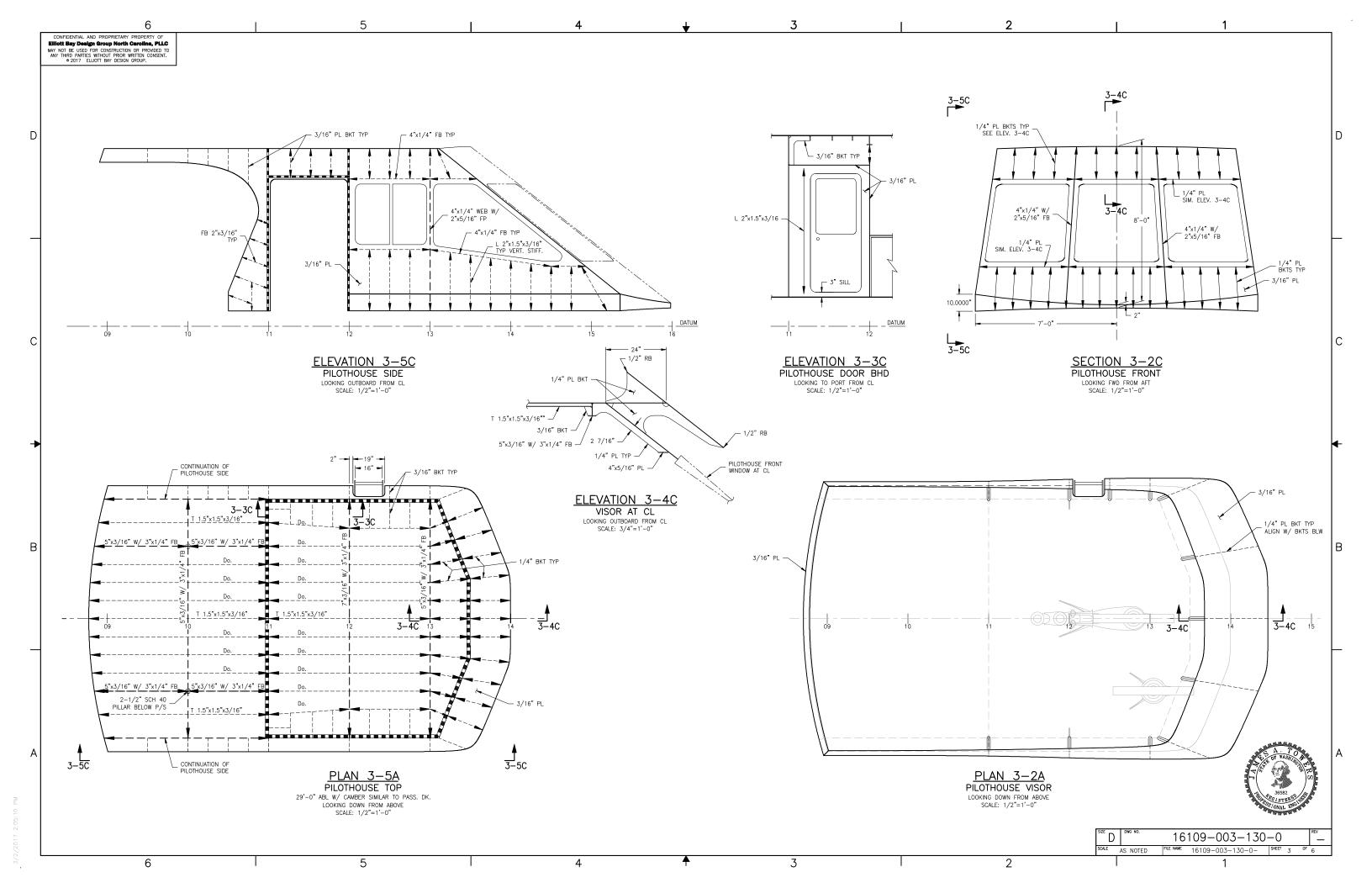


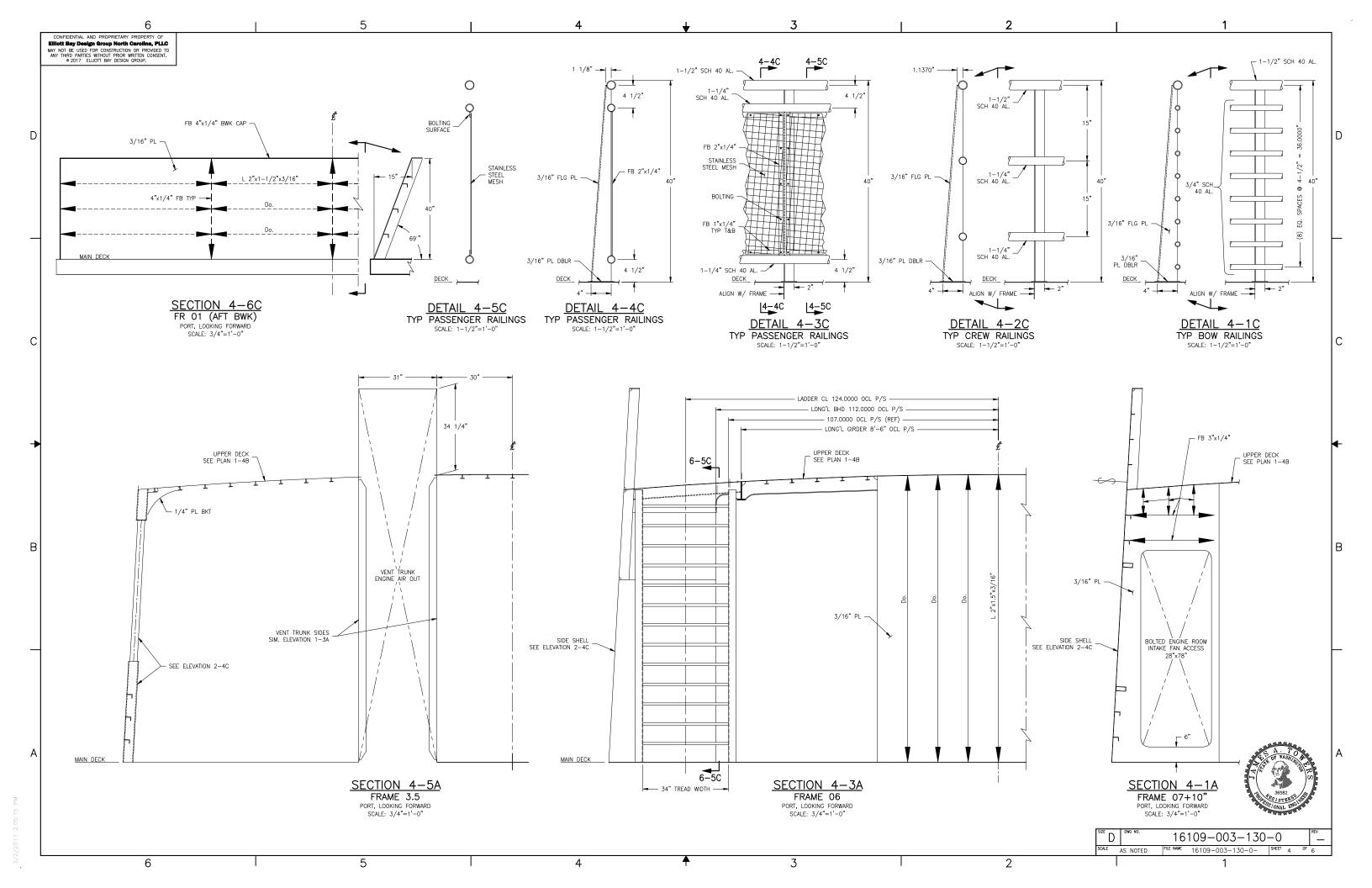


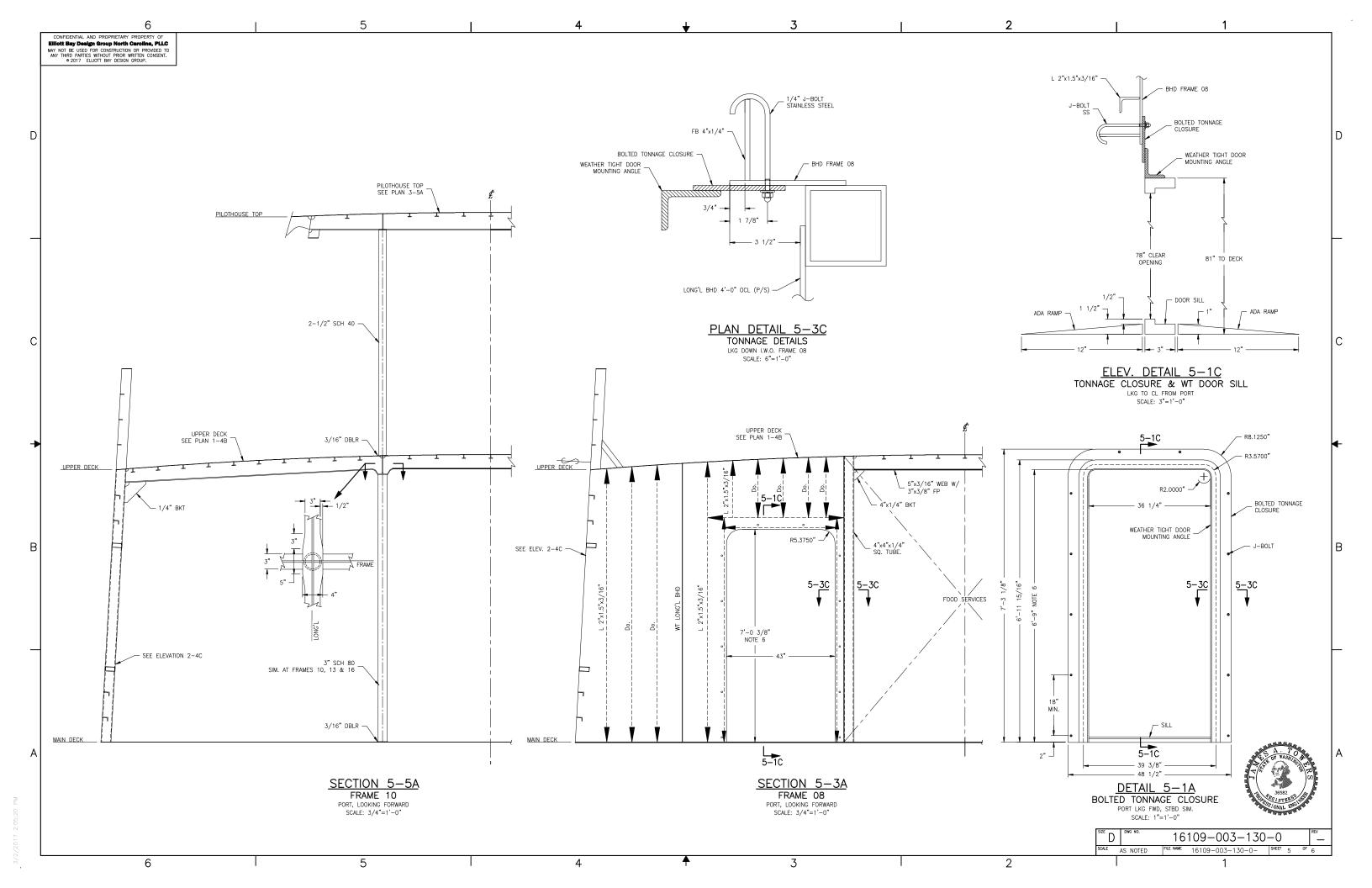


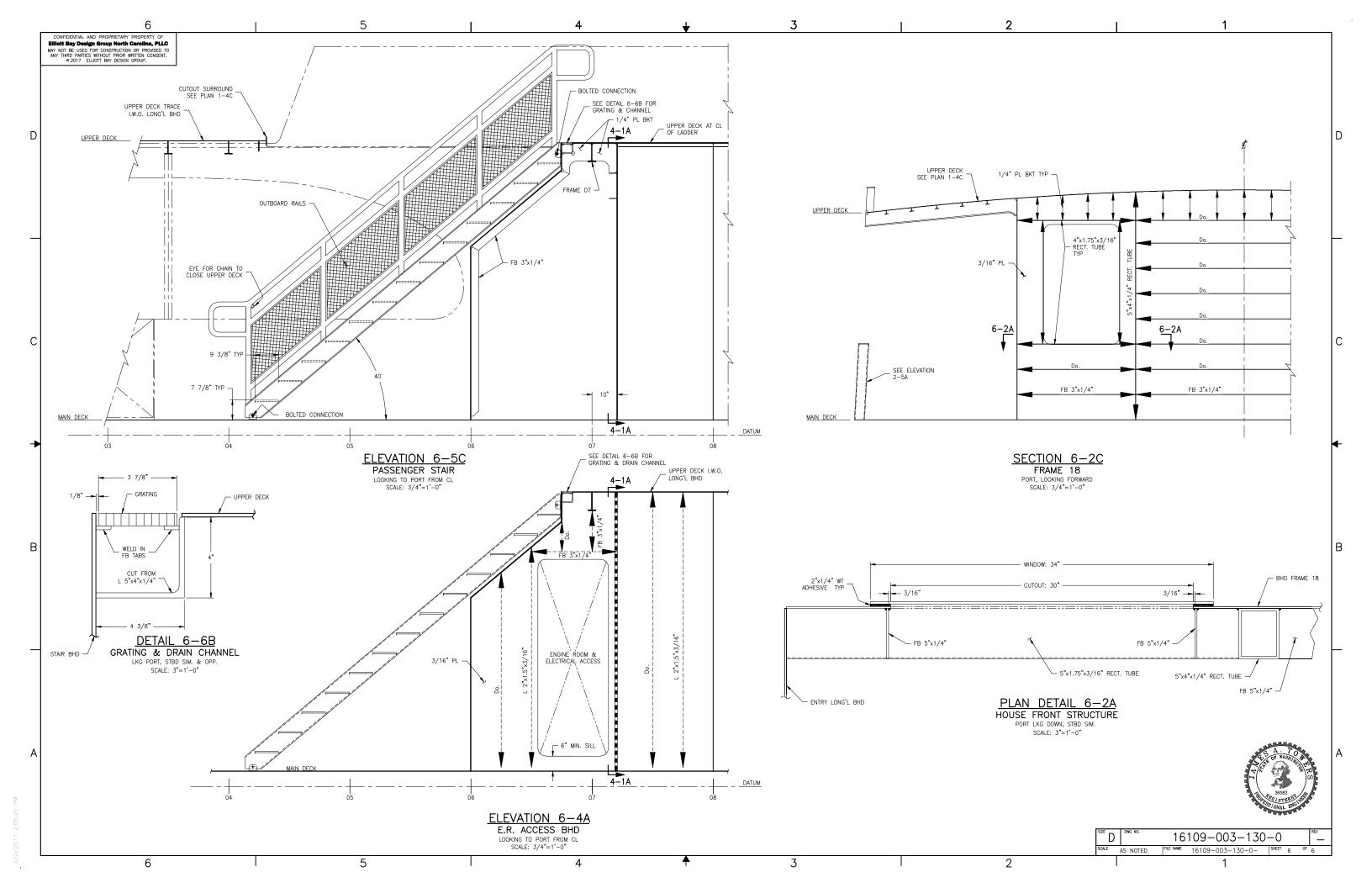


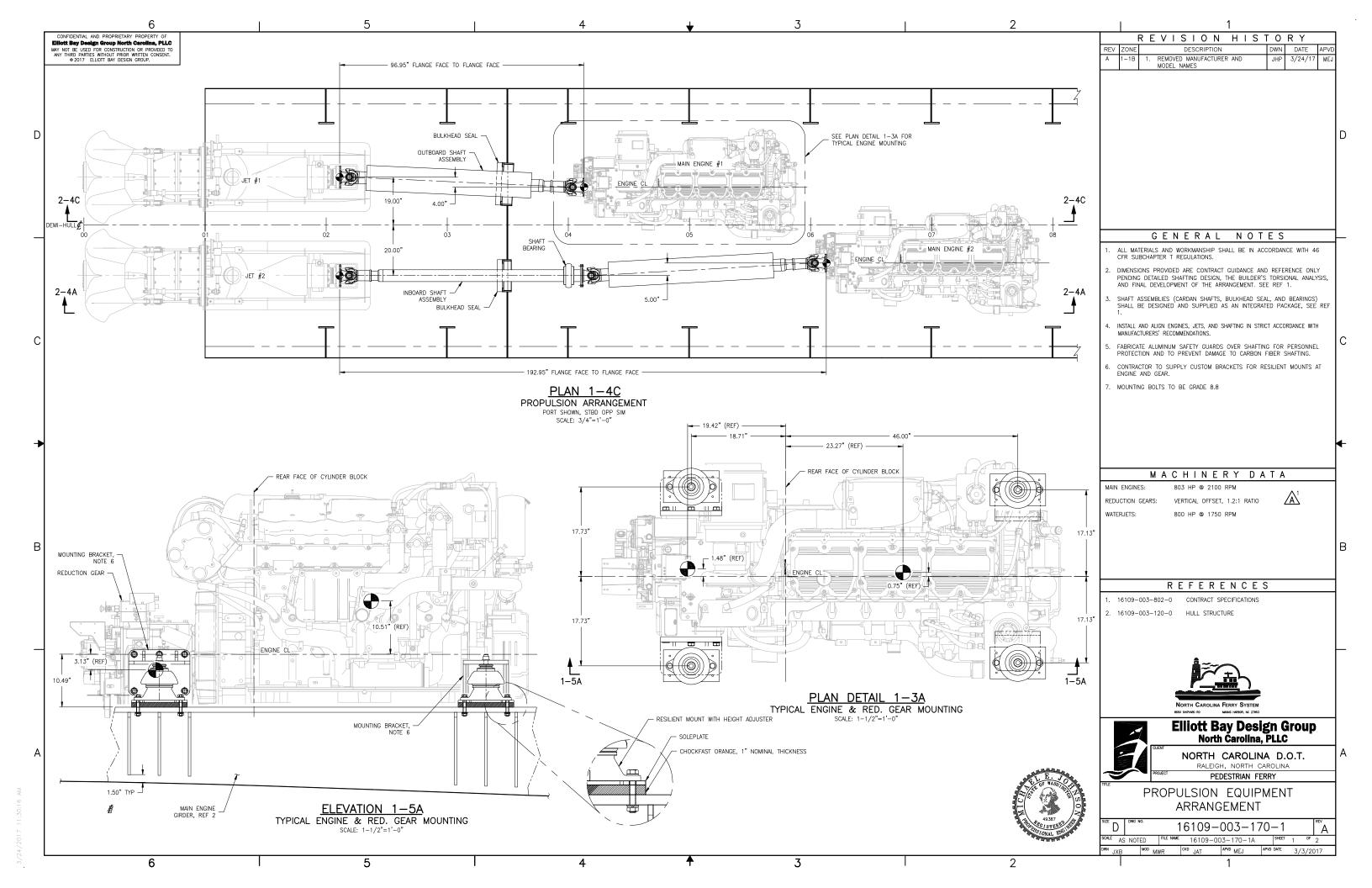


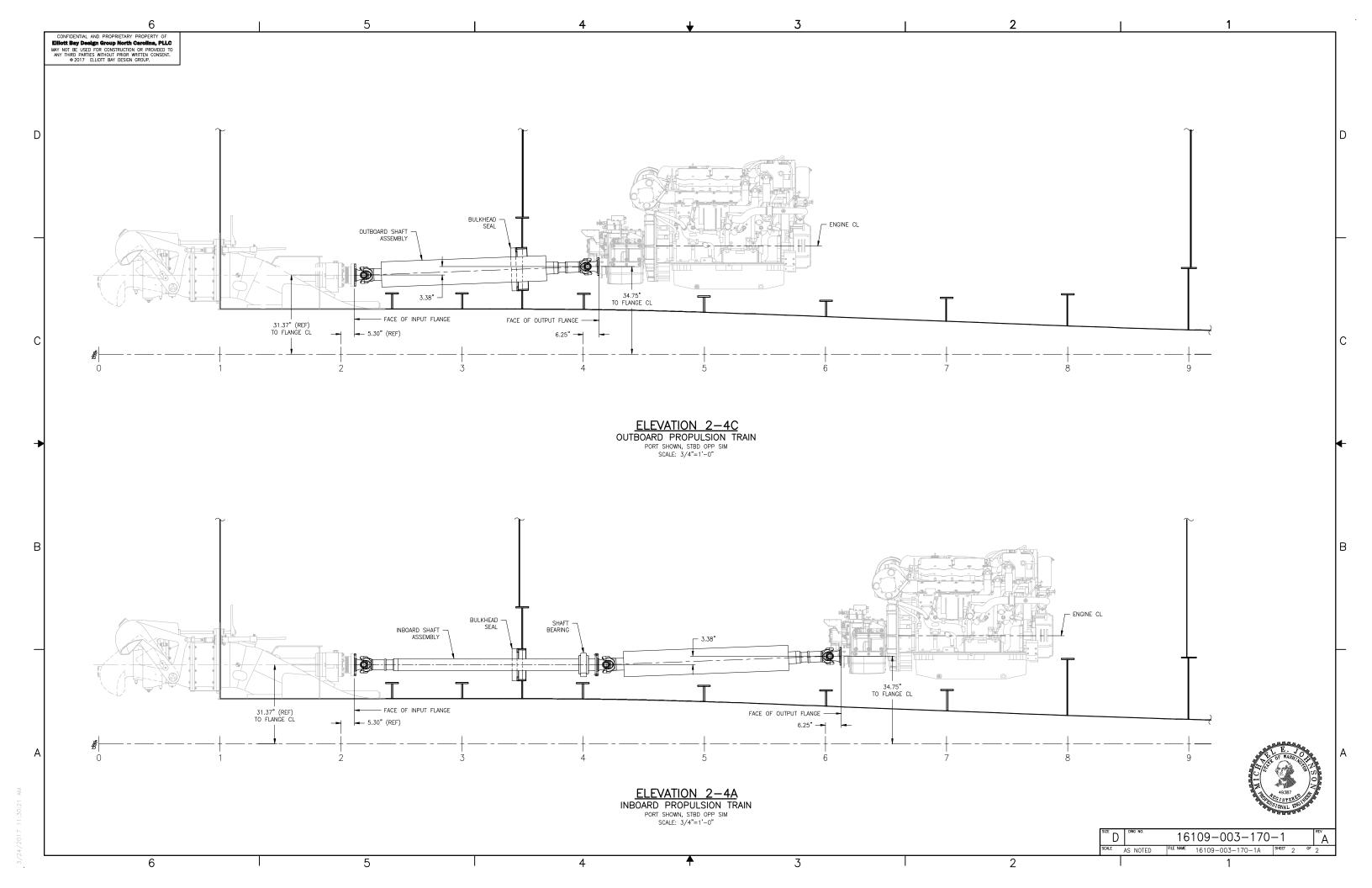


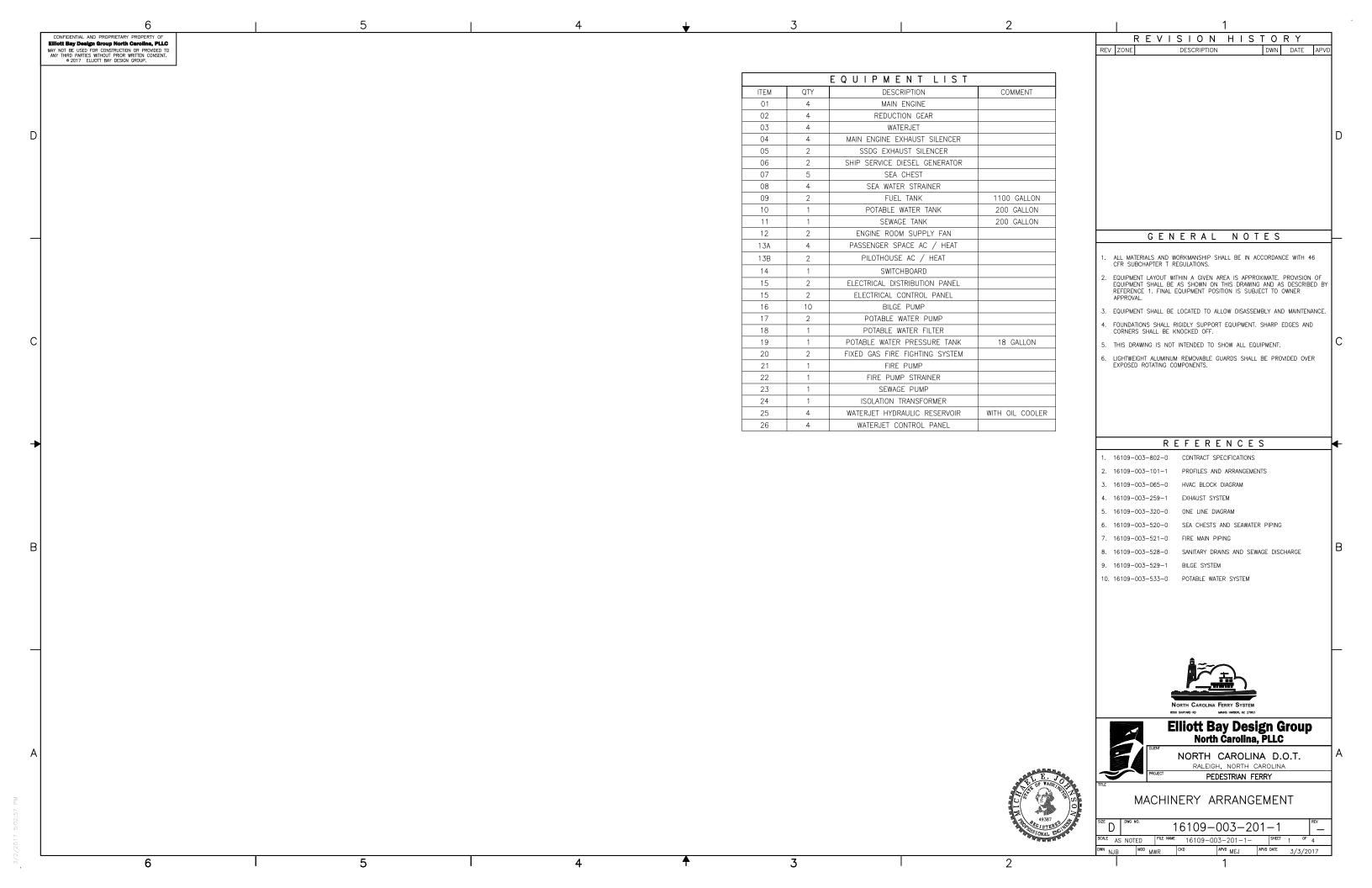


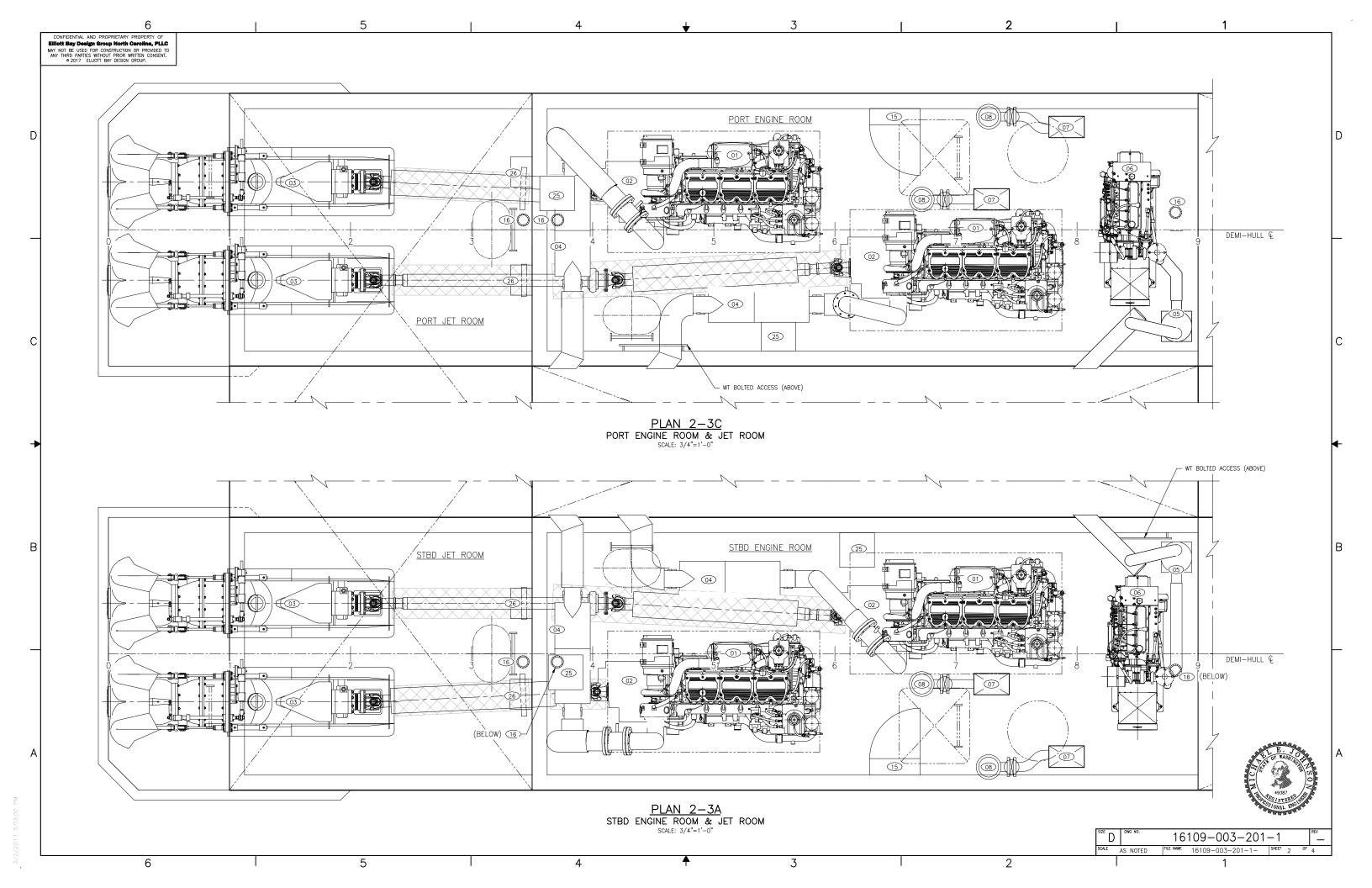


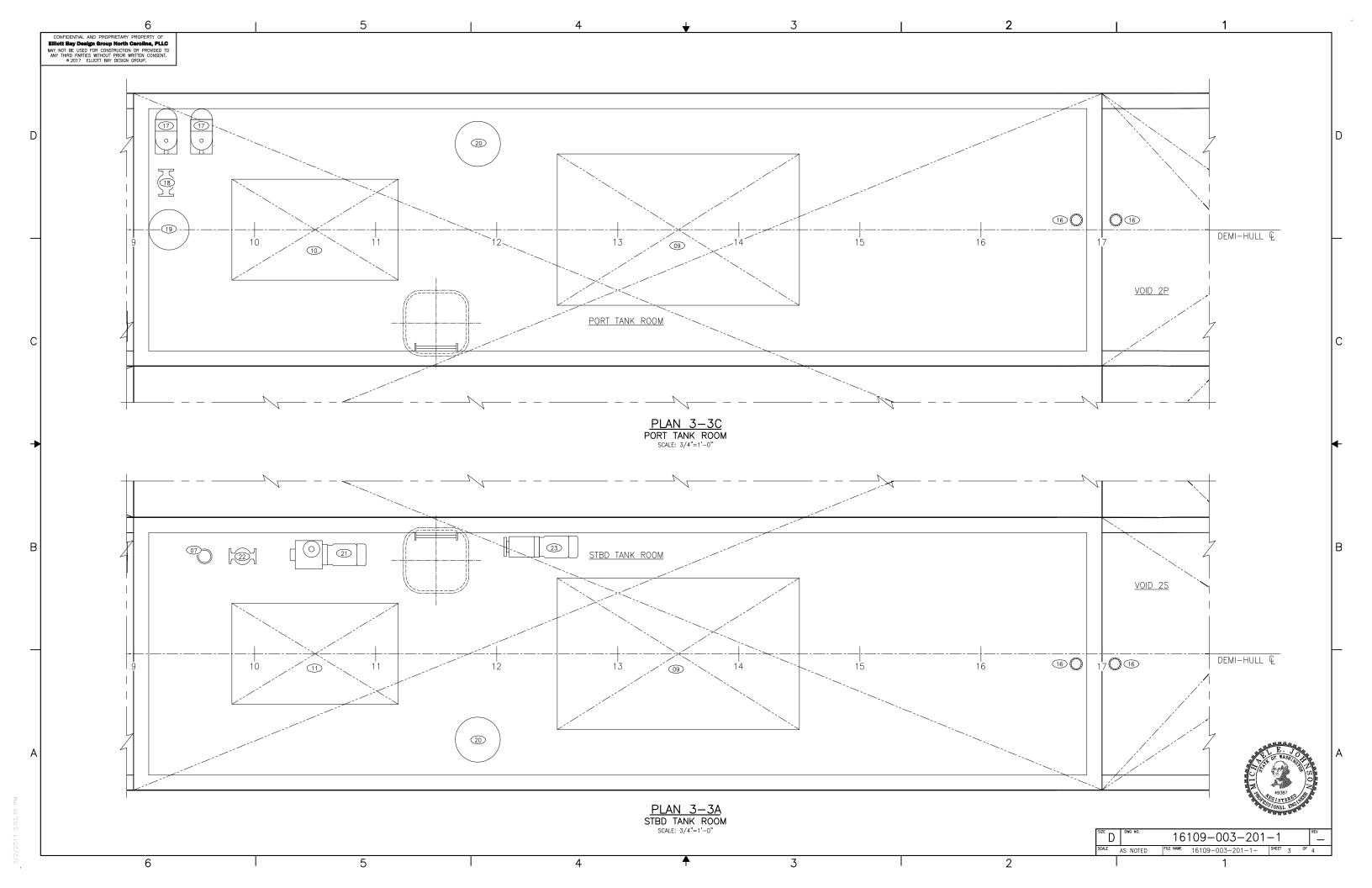


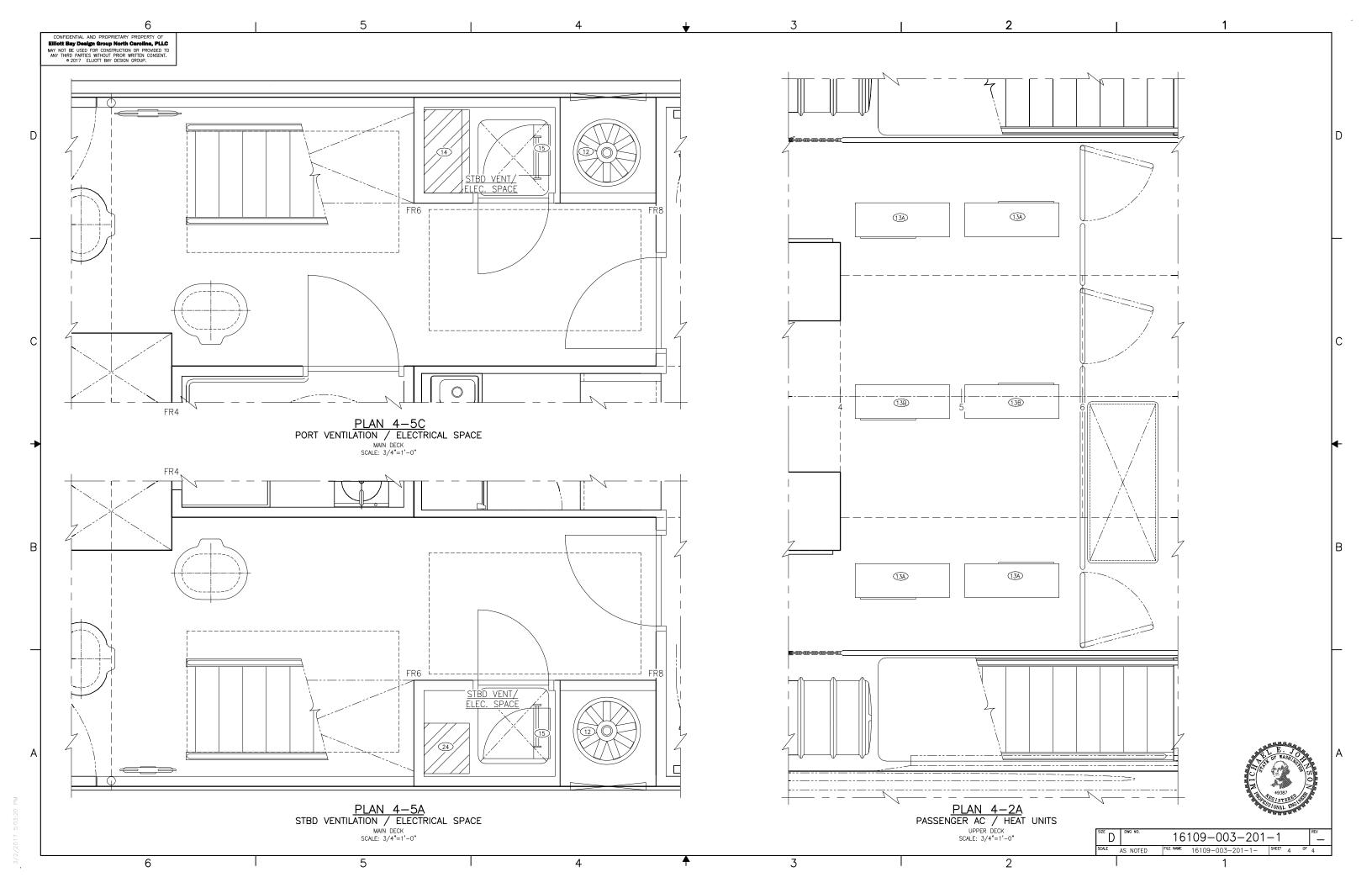


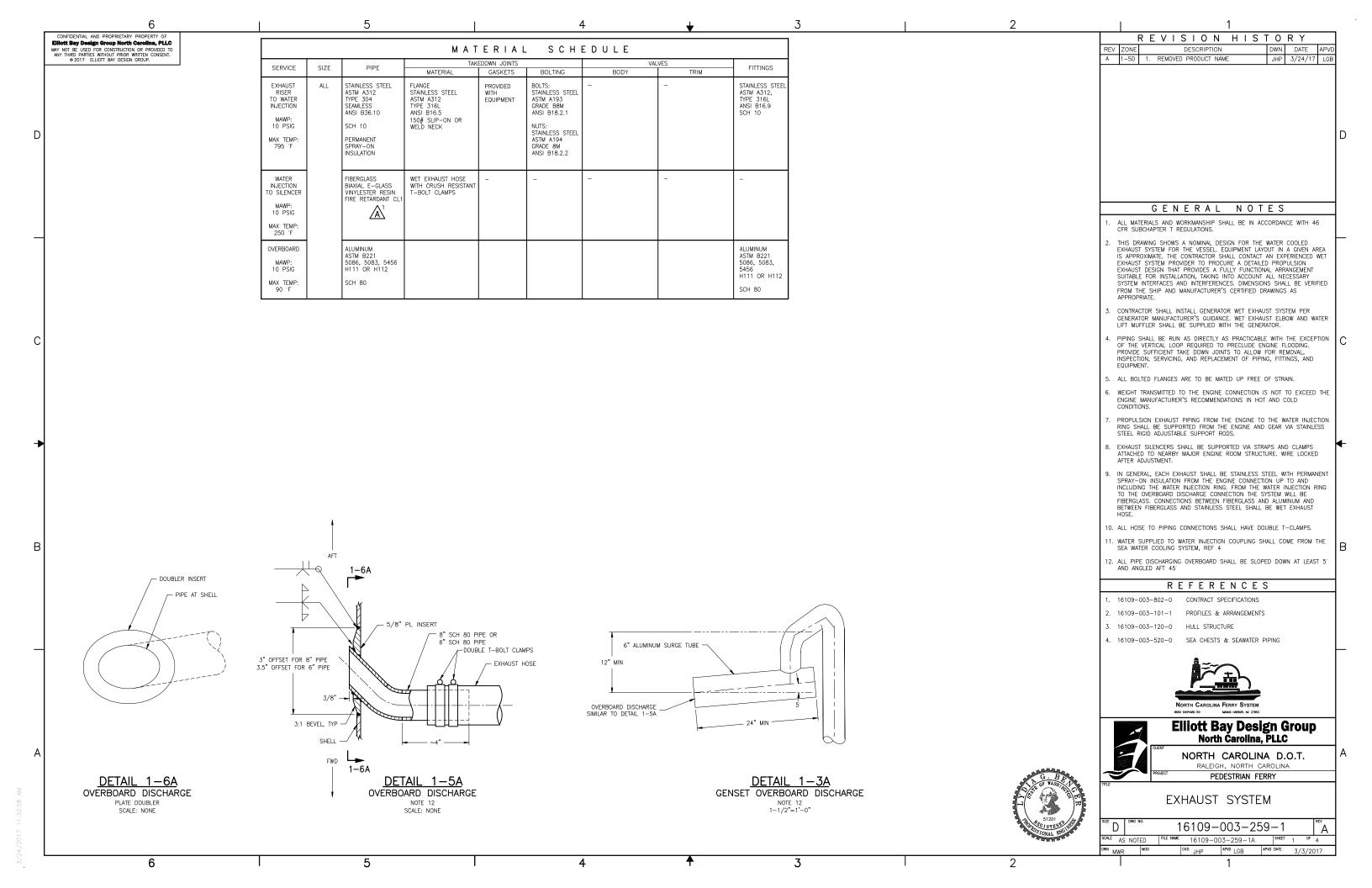


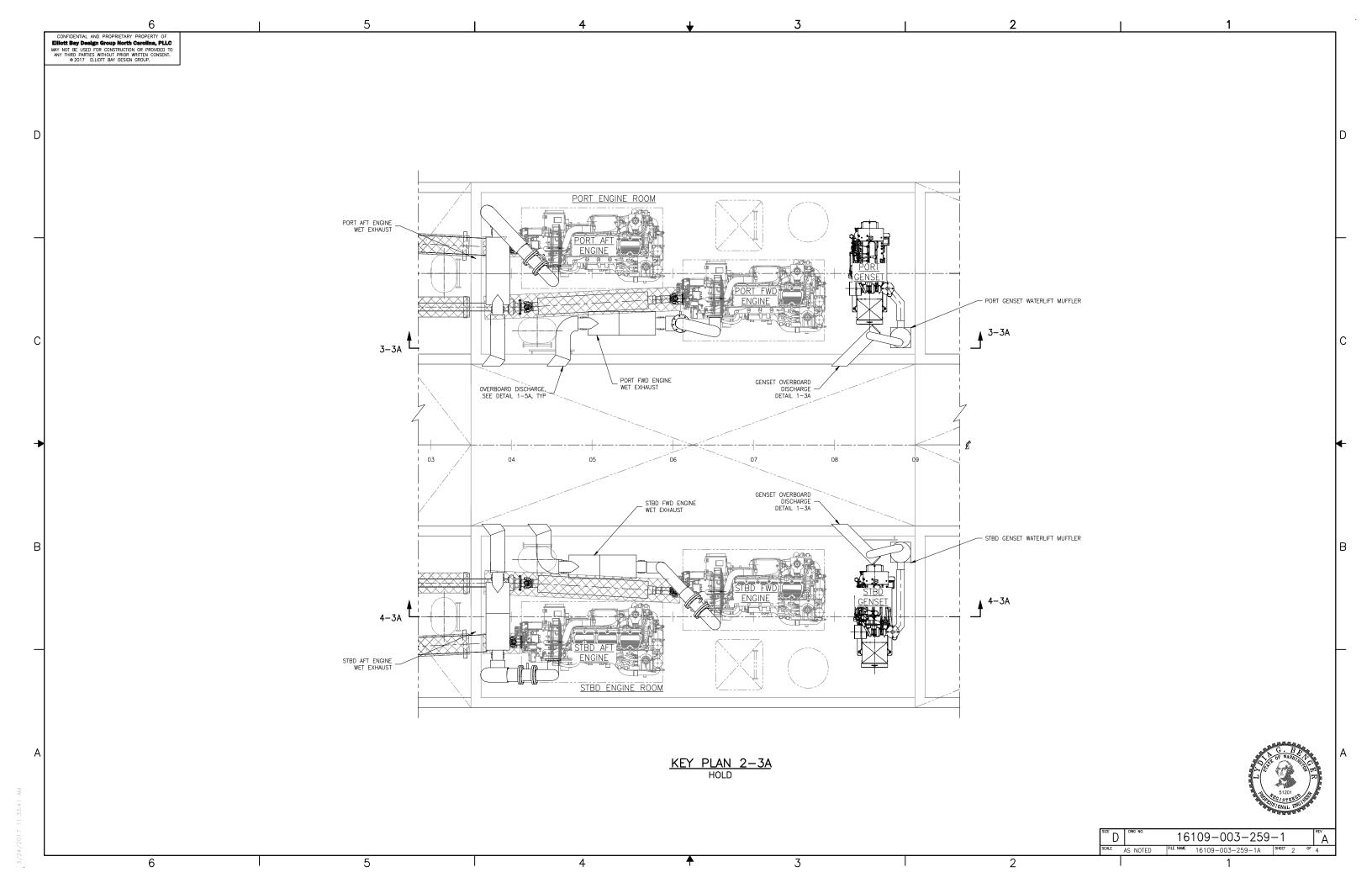


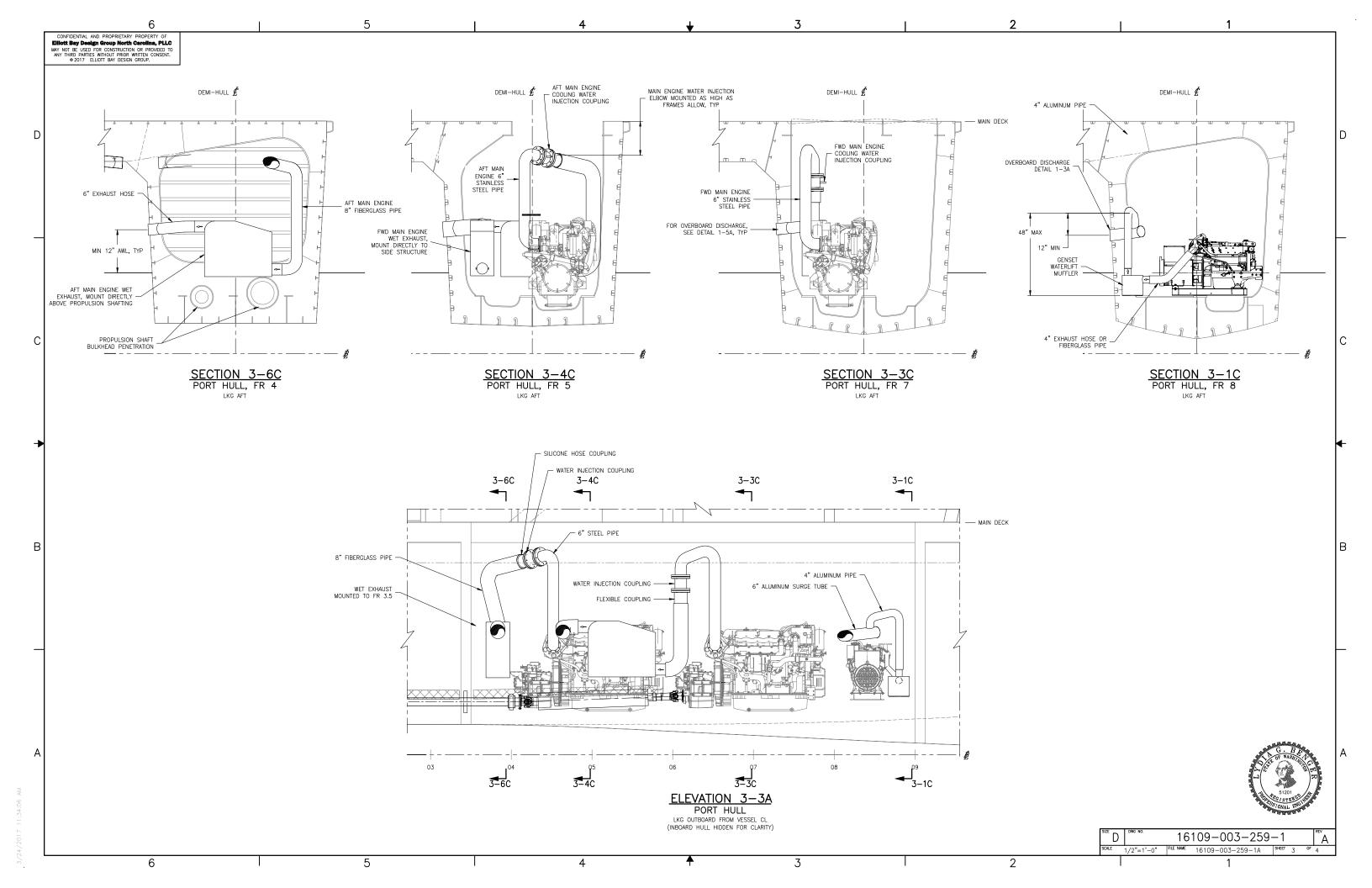


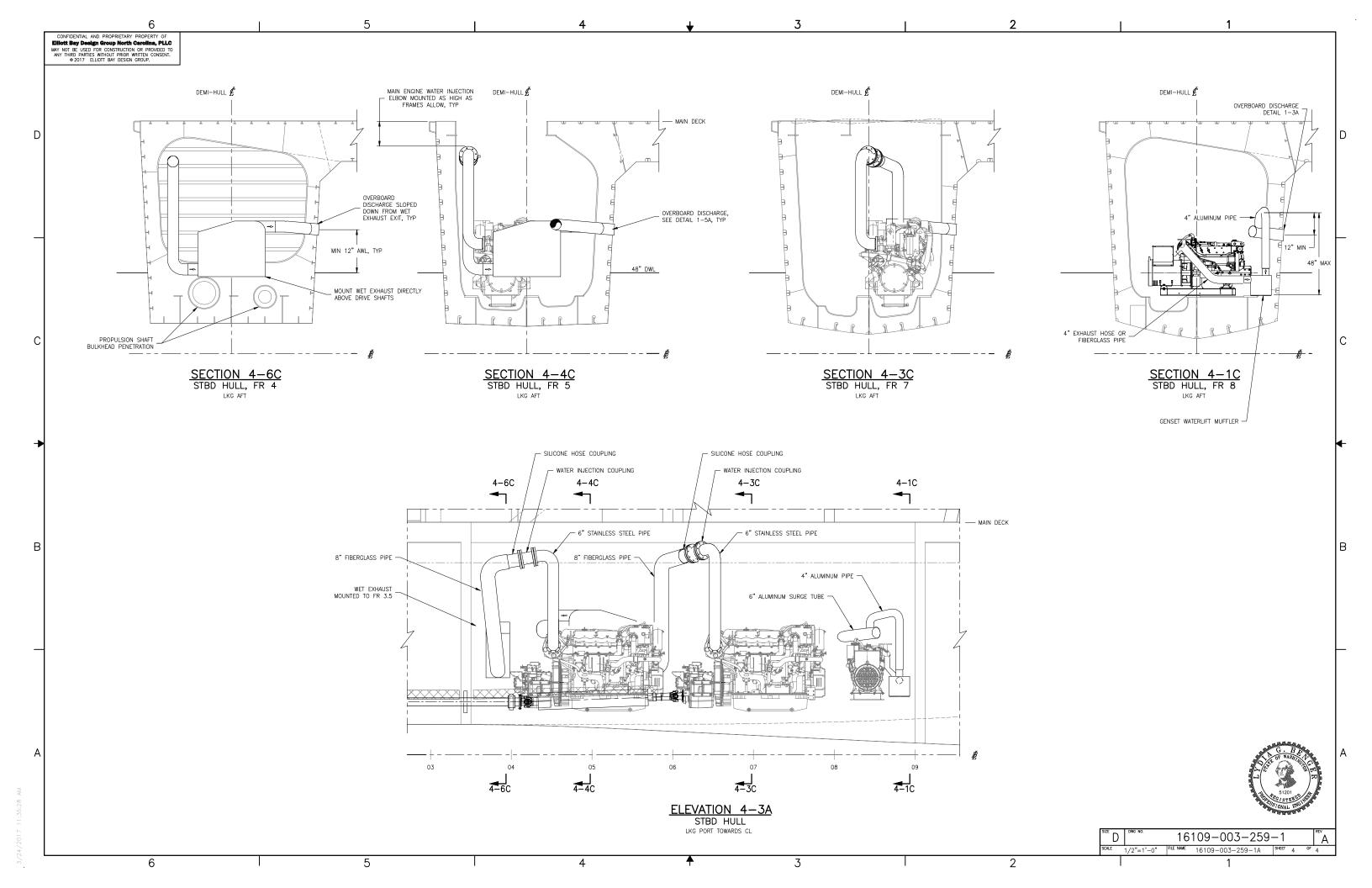


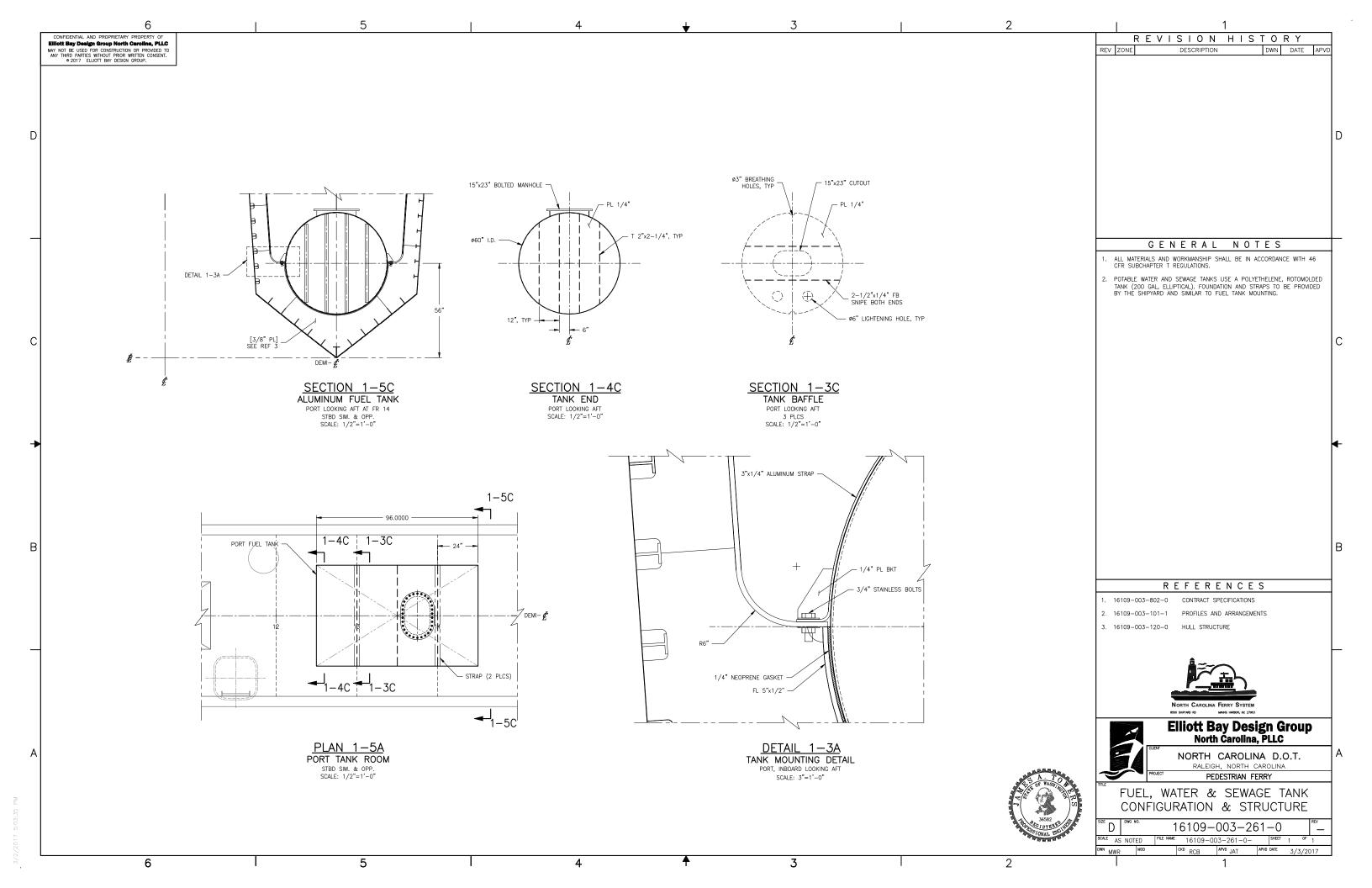


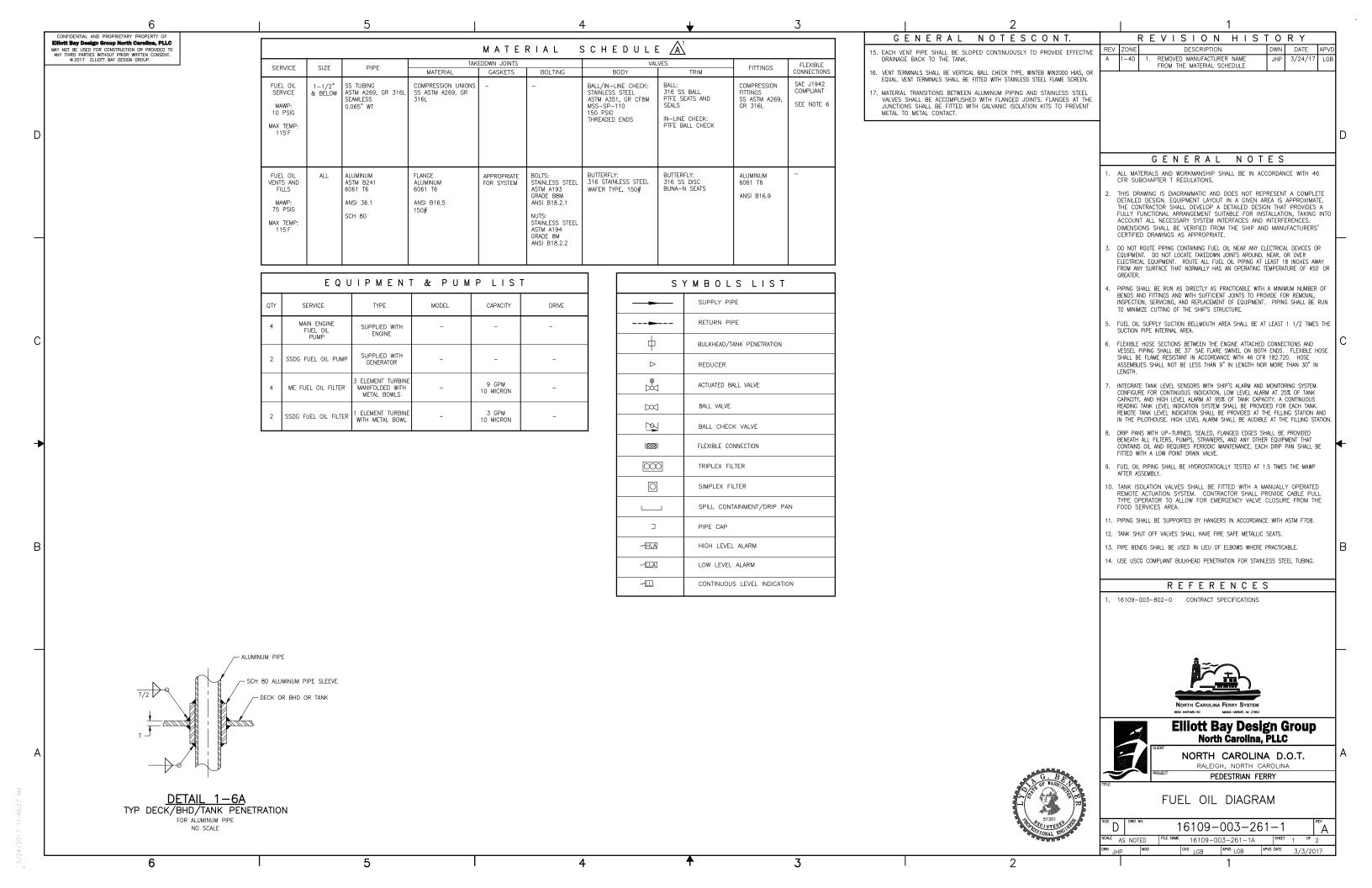


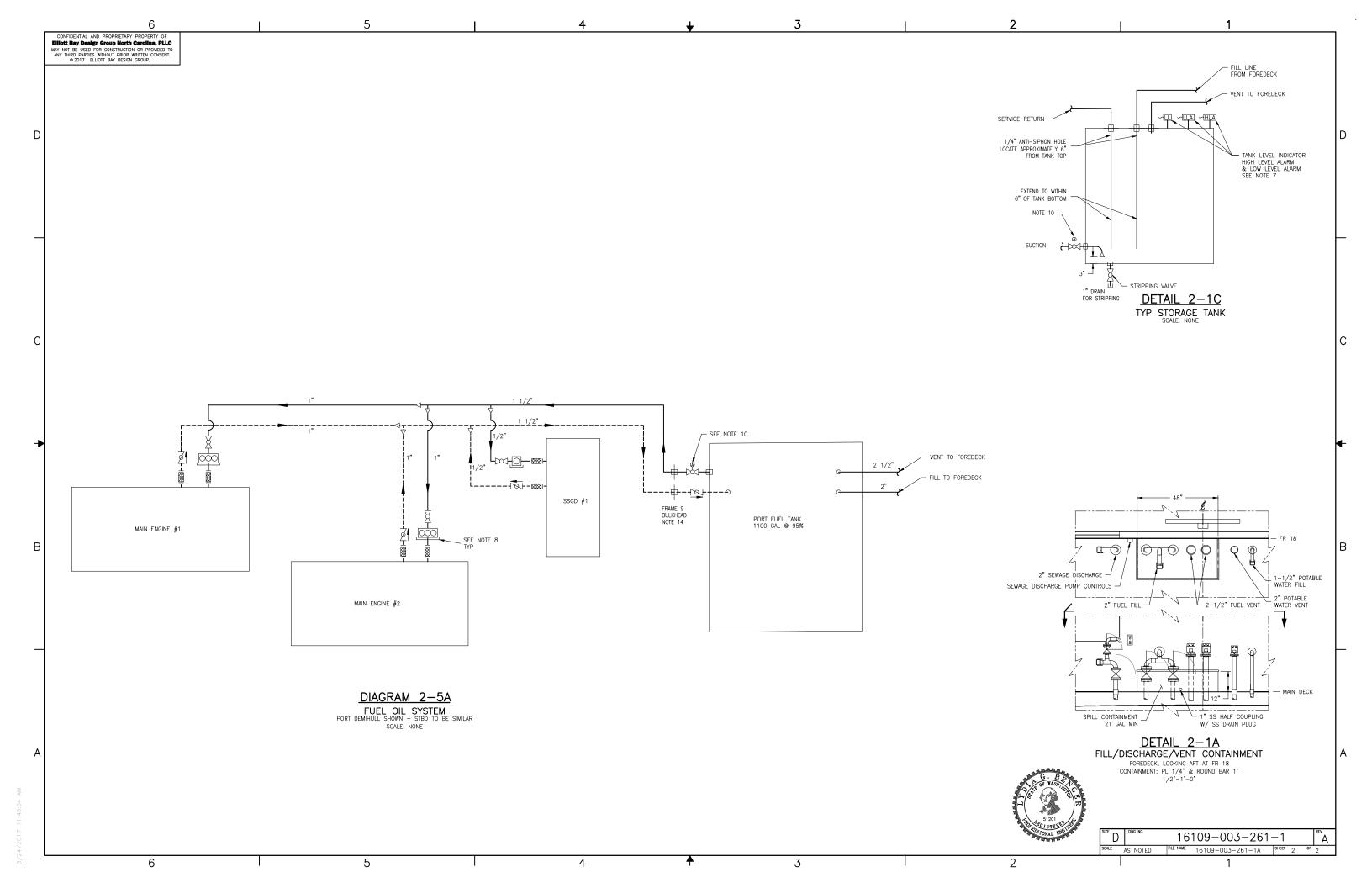


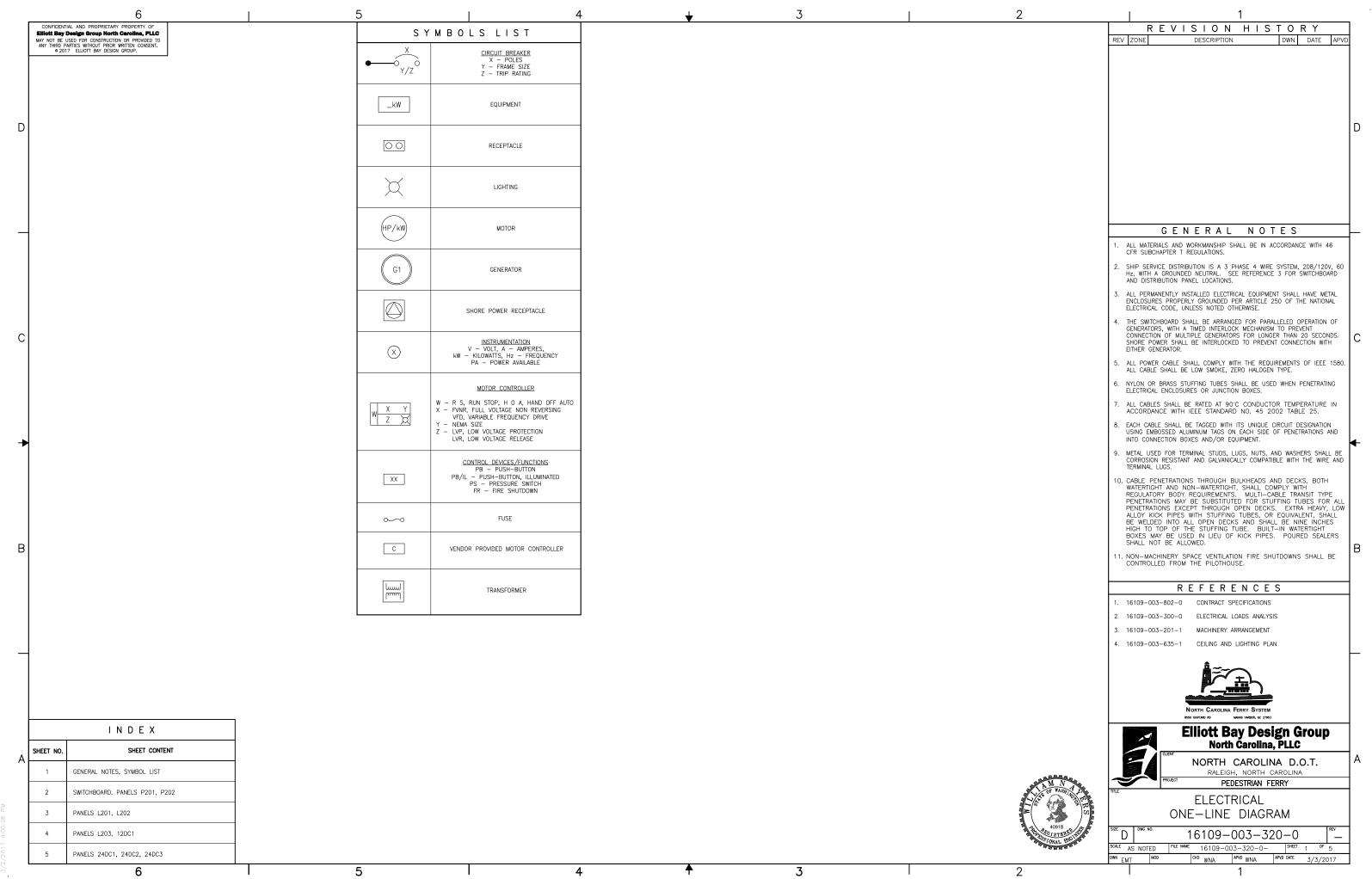


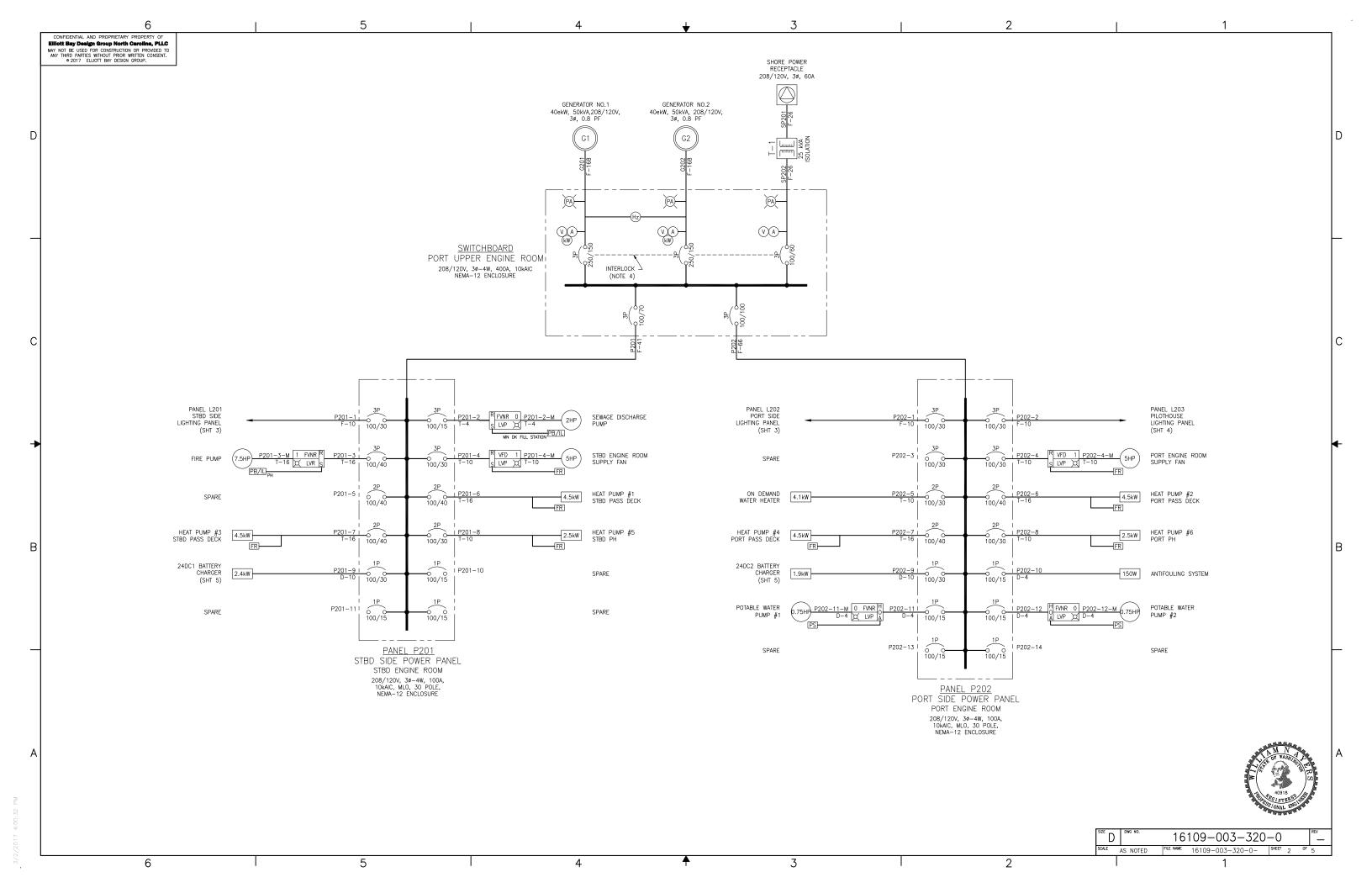


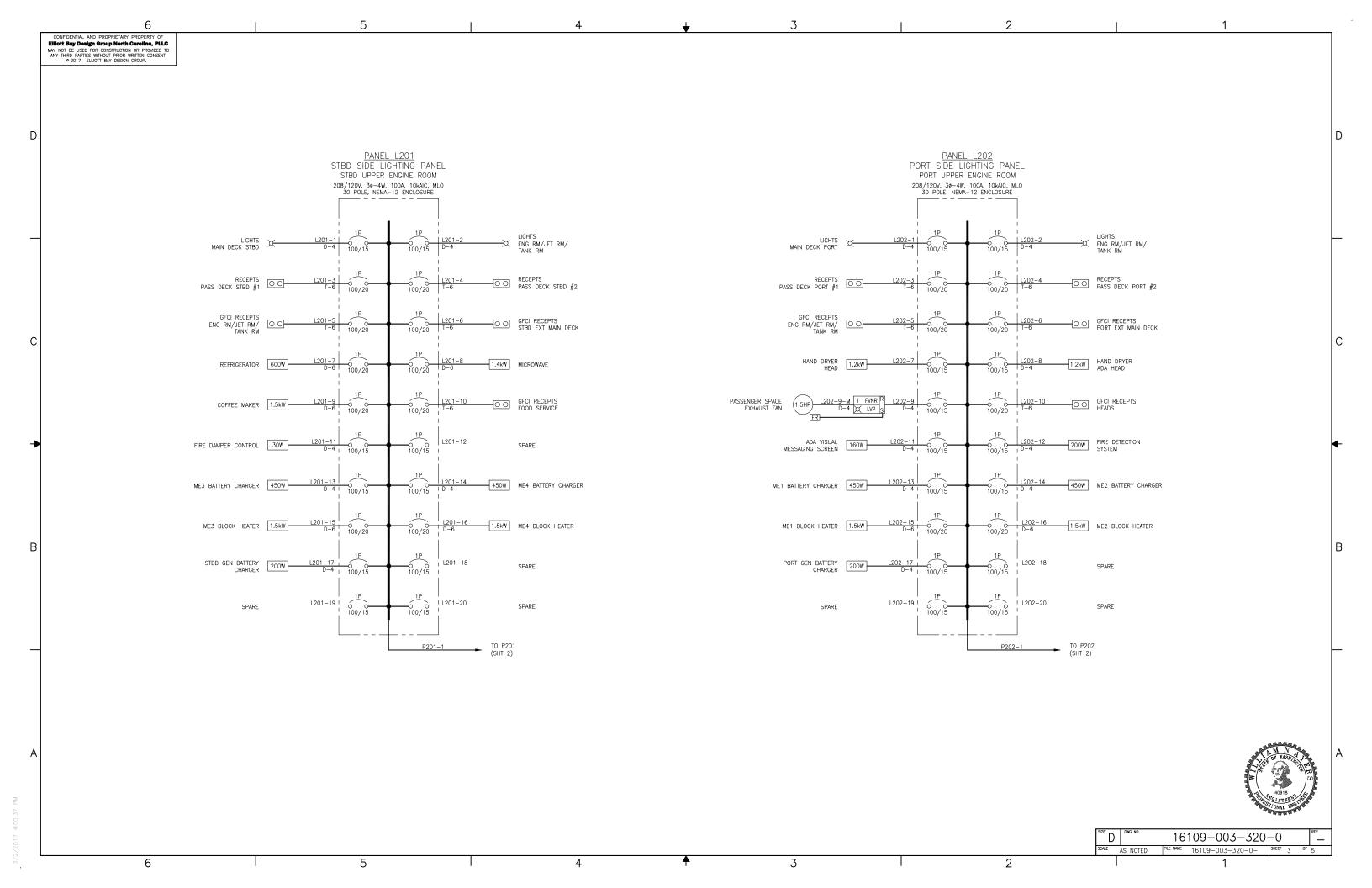


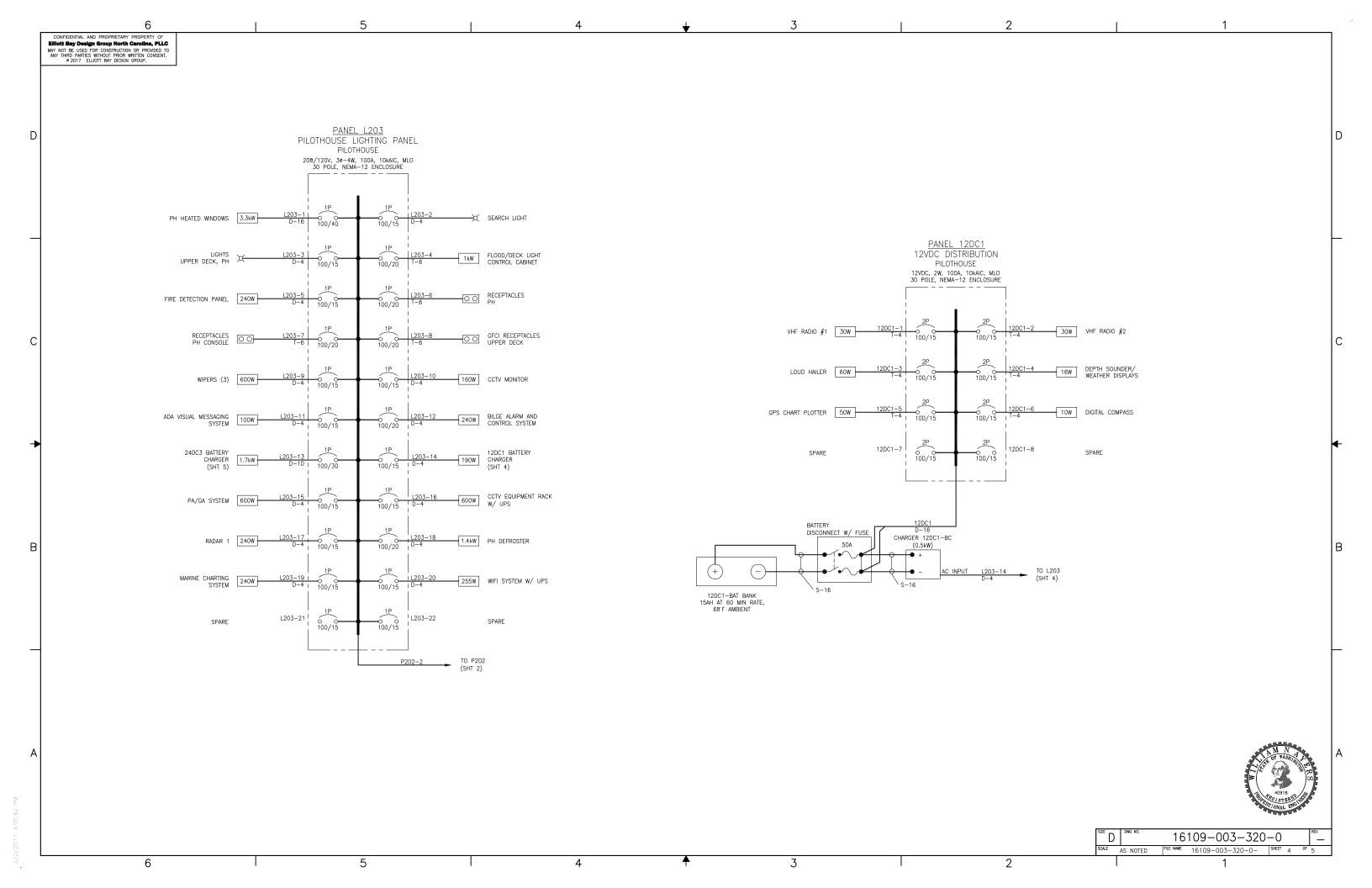


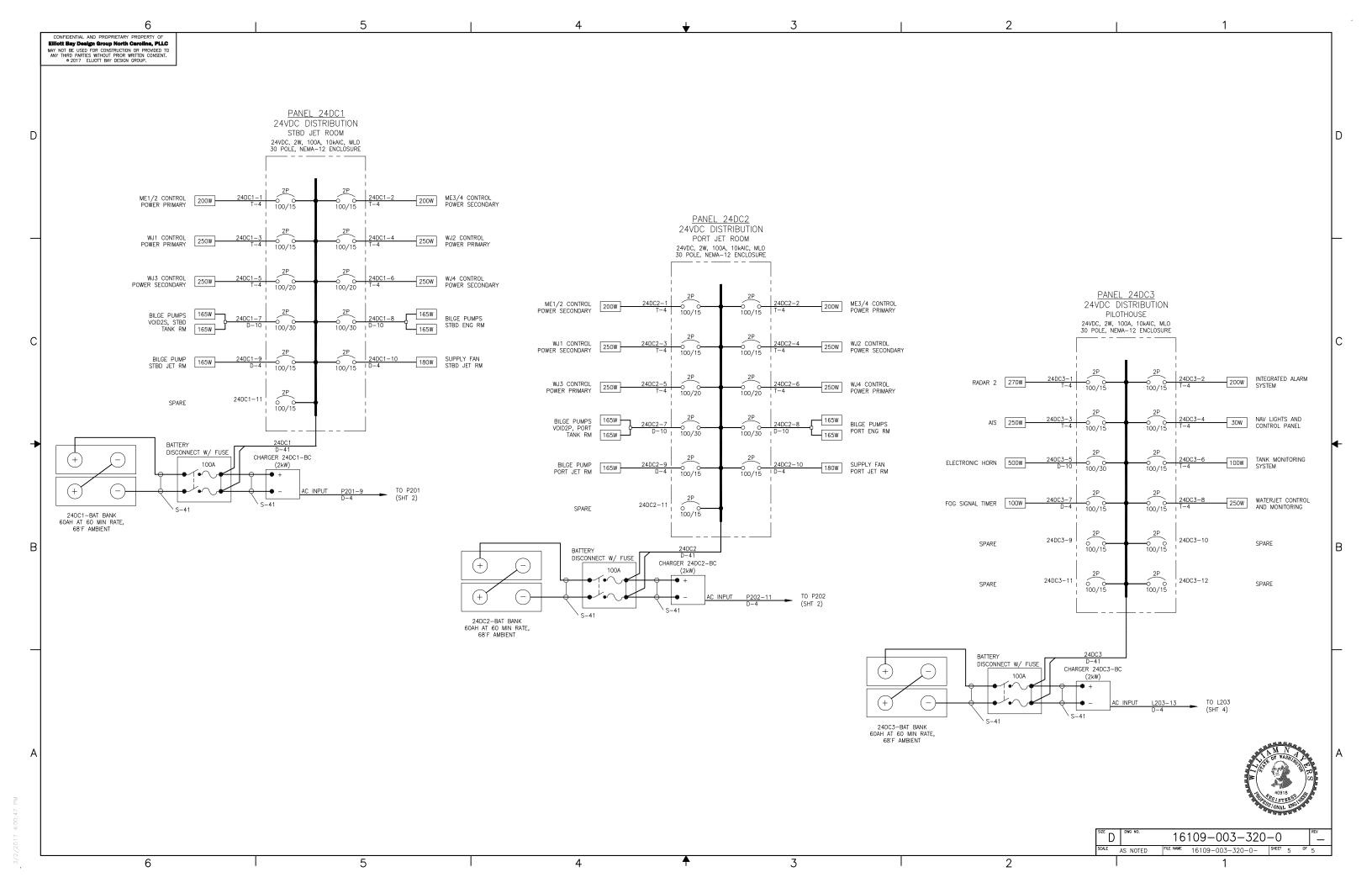




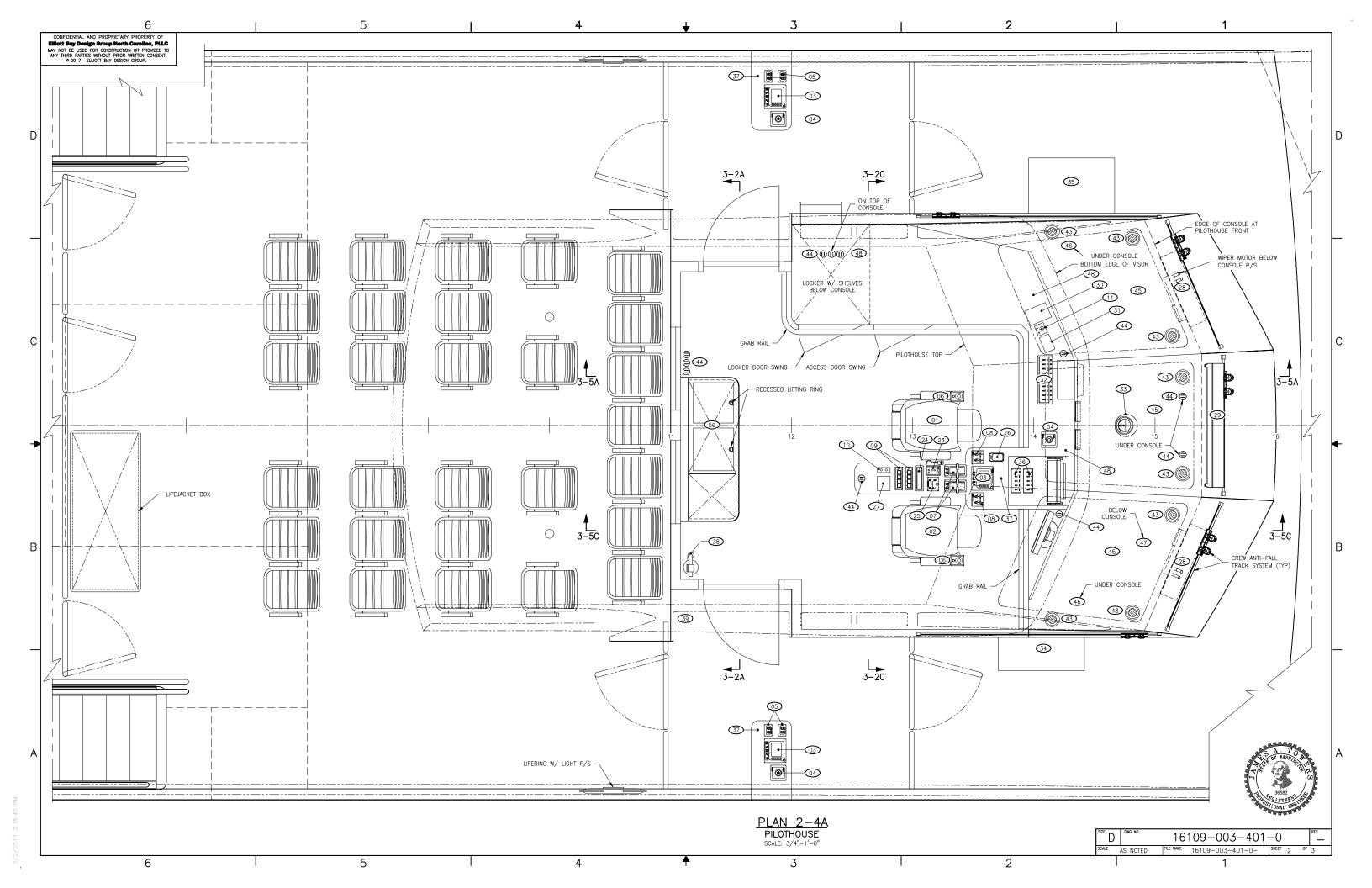


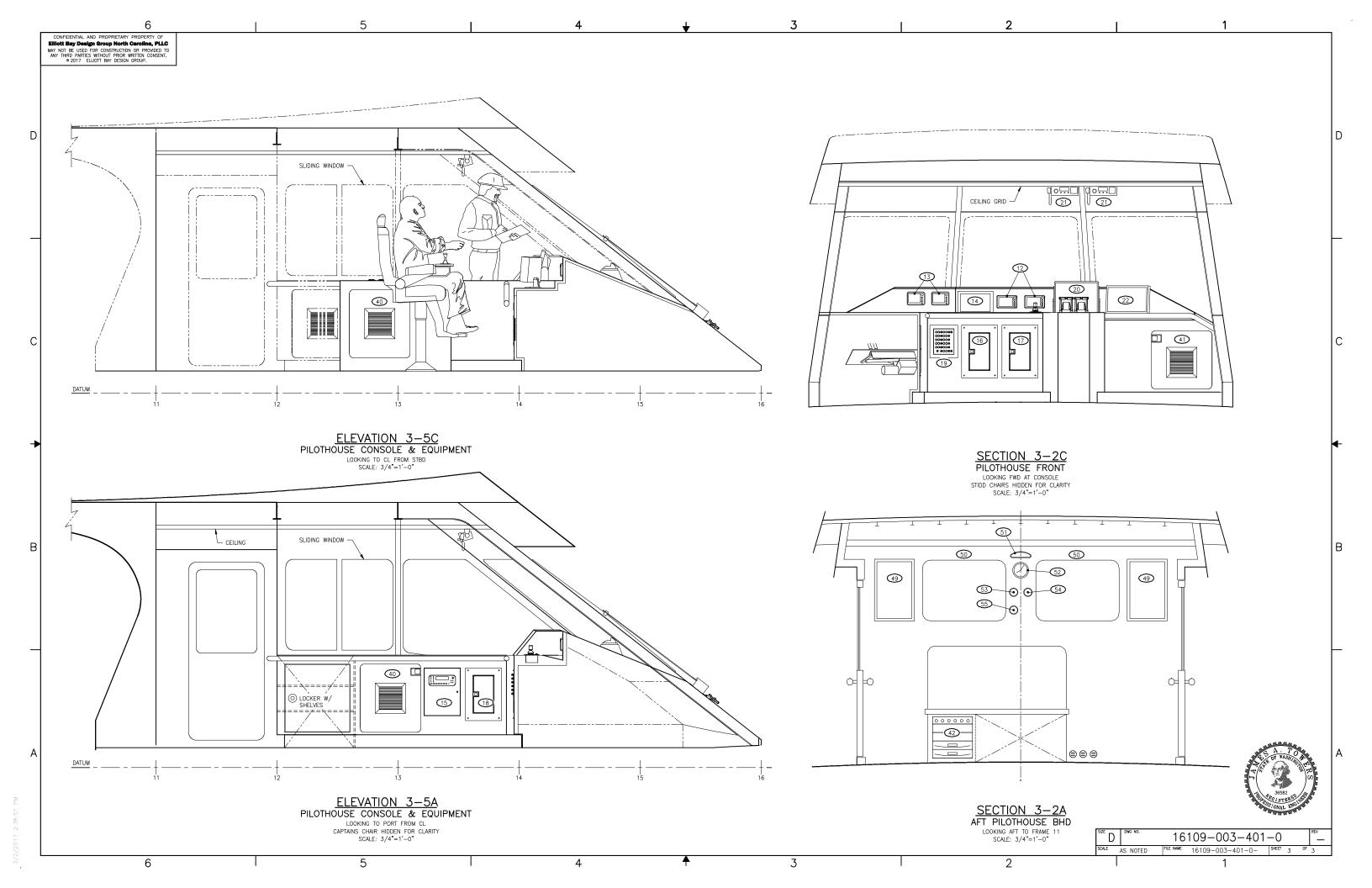


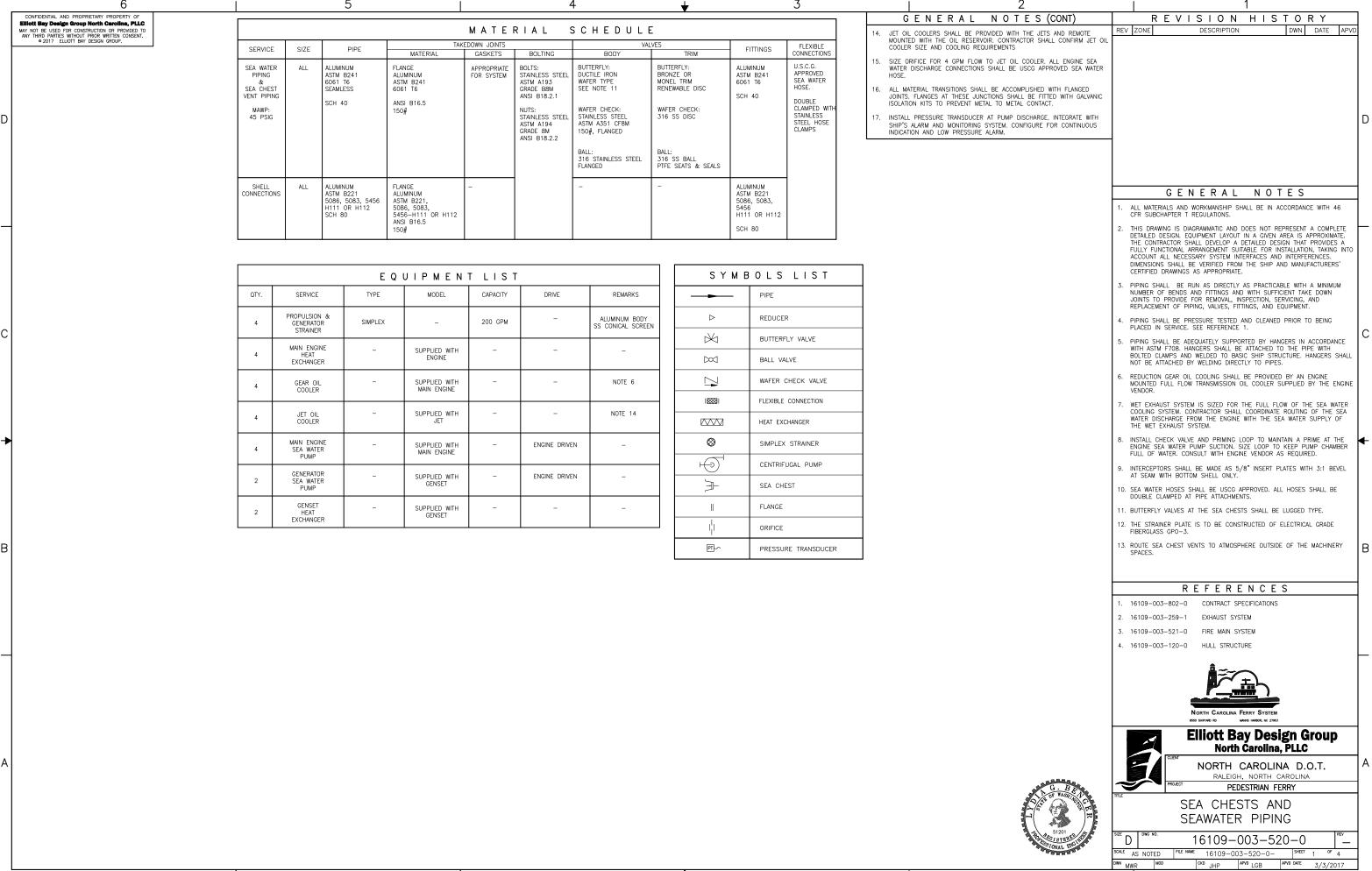




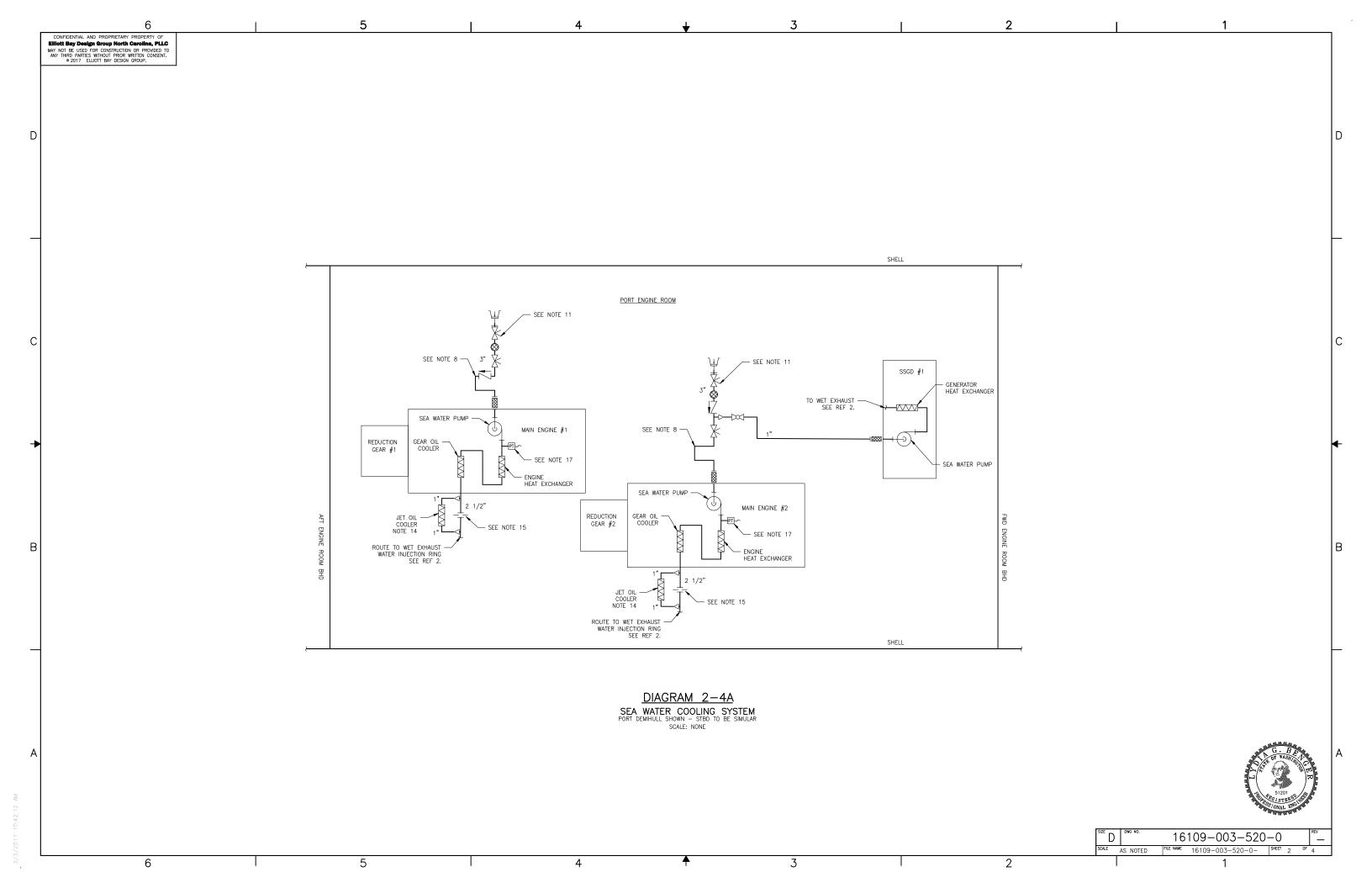
OPRIETARY PROPERTY OF BURN NORTH Carolina, PLLC DINSTRUCTION OR PROVIDED TO	Г	EQUIPMEN	TIIST			REVISION HISTORY REV ZONE DESCRIPTION DAY
VOT BE USED FOR CONSTRUCTION OR PROVIDED TO THIRD PARTIES WITHOUT PRIOR WRITTEN CONSENT. • 2017 ELLIOTT BAY DESIGN GROUP.	ITEM QTY	DESCRIPTION	NOTES	LOCATION IN DWG		NET ZONE BESOMETION DING DA
	01 1	CAPTAIN'S CHAIR	NOTES	2-2C		
	02 1	RADAR OBSERVER'S CHAIR		2-2B		
	03 3	STATION PANEL		SHEET 2		
	04 3	DOCKING JOYSTICK		SHEET 2		
	05 4	GEAR PANEL		SHEET 2		
	06 2	STEERING JOYSTICK		SHEET 2		
	07 2	PROPULSION LEVERS		2-2B		
	08 2	BACKUP PANEL		2-2B		
	09 4	ENGINE START / EMERGENCY STOP	STOPS WITH SWITCH GUARDS	2-3B		
	10 1	EMERGENCY VENTILATION SHUTDOWN BUTTON		2-3B		
	11 1	FIRE PUMP CONTROL AND PRESSURE INDICATOR PANEL		2-2C		
	12 2	ENGINE CONTROL PANELS		3-2C		
	13 2	GENERATOR CONTROL PANEL	FLUSH MOUNT	3-2C		GENERAL NOTES
	14 1	VESSEL MONITORING & CONTROL TOUCHSCREEN		3-2C		1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE CFR SUBCHAPTER T REGULATIONS. 2. EQUIPMENT LOCATIONS ARE DIAGRAMMATIC ONLY AND SHALL BE WITH ACTUAL DELIVERED VENDOR EQUIPMENT PRIOR TO INSTALL 3. CONTRACTOR SHALL CREATE A COMPLETE MOCKUP OF THE PILL CONSOLE WITH EQUIPMENT FOR OWNER-OPERATOR INPUT AND PRIOR TO FINAL CONSTRUCTION.
	15 1	FIRE ALARM PANEL		3-5A		
	16 1	12 VDC DISTRIBUTION PANEL		3-2C		
	17 1	24 VDC DISTRIBUTION PANEL		3-2C		
	18 1	208/120 VAC DISTRIBUTION PANEL		3-5A		
	19 1	NAVIGATION LIGHT PANEL		3-2C		
	20 1	RADAR & GPS TOUCHSCREEN		3-2C		
	21 2	VHF RADIO		3-2D		
	22 1	CCTV MONITOR	18.5" SCREEN	3-2C		
	23 1	PA/GA SYSTEM CONTROL & MICROPHONE		2-2B		
	24 1	SHIP'S TELEPHONE		2-2B		
	25 1	SEARCHLIGHT ON-OFF & JOYSTICK CONTROL		2-2B		
	26 1	WIPER CONTROLS		2-2B		
	27 1	WINDOW HEATER CONTROL PANEL		2-3B		
	28 2	WIPER MOTOR	PANTOGRAPH	SHEET 2		
	29 1	WIPER MOTOR	STRAIGHTLINE	2-1C		
	30 1	DEFROST/LIGHTING SWITCH PANEL		2-2C		
	31 1	FOG SIGNAL TIMER		2-2C		
	32 1	BILGE PUMP CONTROL PANEL		2-2C		
	33 1	DIGITAL COMPASS		2-1C		
	34 1	12 VDC BATTERY BOX		2-2A		
	35 1	24 VDC BATTERY BOX		2-2D		
	36 1	EXTERIOR LIGHT SWITCHES		2-2B		
	37 3	AIR HORN	PUSH BUTTON	SHEET 2		
	38 1	PORTABLE FIRE EXTINGUISHER		2-3B		REFERENCES
	39 1	FOG BELL	8" CHROME	2-3B		1. 16109-003-802-0 CONTRACT SPECIFICATIONS
	40 2	ACCESS DOOR, LOUVERED	24" × 27"	SHEET 3		2. 16109-003-101-1 PROFILES AND ARRANGEMENTS
	41 1	ACCESS DOOR, LOUVERED	24" × 23"	3-1C		
	42 1	CCTV UPS		3-2A		
	43 8	DE-MISTING LOUVER		SHEET 2		
	44 11	DUPLEX RECEPTACLE		SHEET 2		
	45 3	WINDOW HEATING UNIT		SHEET 2		
	46 2	BATTERY CHARGER		SHEET 2		
	47 1	FORCED AIR DEFROSTER		2-1B		NORTH CAROLINA FERRY SYSTEM 8550 SHEPUND RD MANNE HARBOR, NC 27963
	48 3	INSTRUMENT LIGHT	GOOSENECK DIMMABLE	SHEET 2		
	49 2	DISPLAY CASE FOR DOCUMENTS		3-2B		Elliott Bay Design Gro North Carolina, PLLC
	50 2	WINDOW SHADES		3-2B		NORTH CAROLINA D.O.T
	51 1	INCLINOMETER		3-2B		NORTH CAROLINA D.O.T RALEIGH, NORTH CAROLINA
	52 1	ANALOG CLOCK		3-2B	SATO	PROJECT PEDESTRIAN FERRY
	53 1	ANEMOMETER		3-2B	THE OF WASHING OF	TITLE
	54 1	BAROMETER		3-2B	A S.	PILOTHOUSE ARRANGEMENT
	55 1	THERMOMETER		3-2B	36582	SIZE D DWG NO.
	56 1	BENCH	WITH HINGED LID & STORAGE UNDER	2-3C	TO THE STATE OF TH	16109-003-401-0
					" 有是自身的。	SCALE AS NOTED FLE NAME 16109-003-401-0- SHEET 1

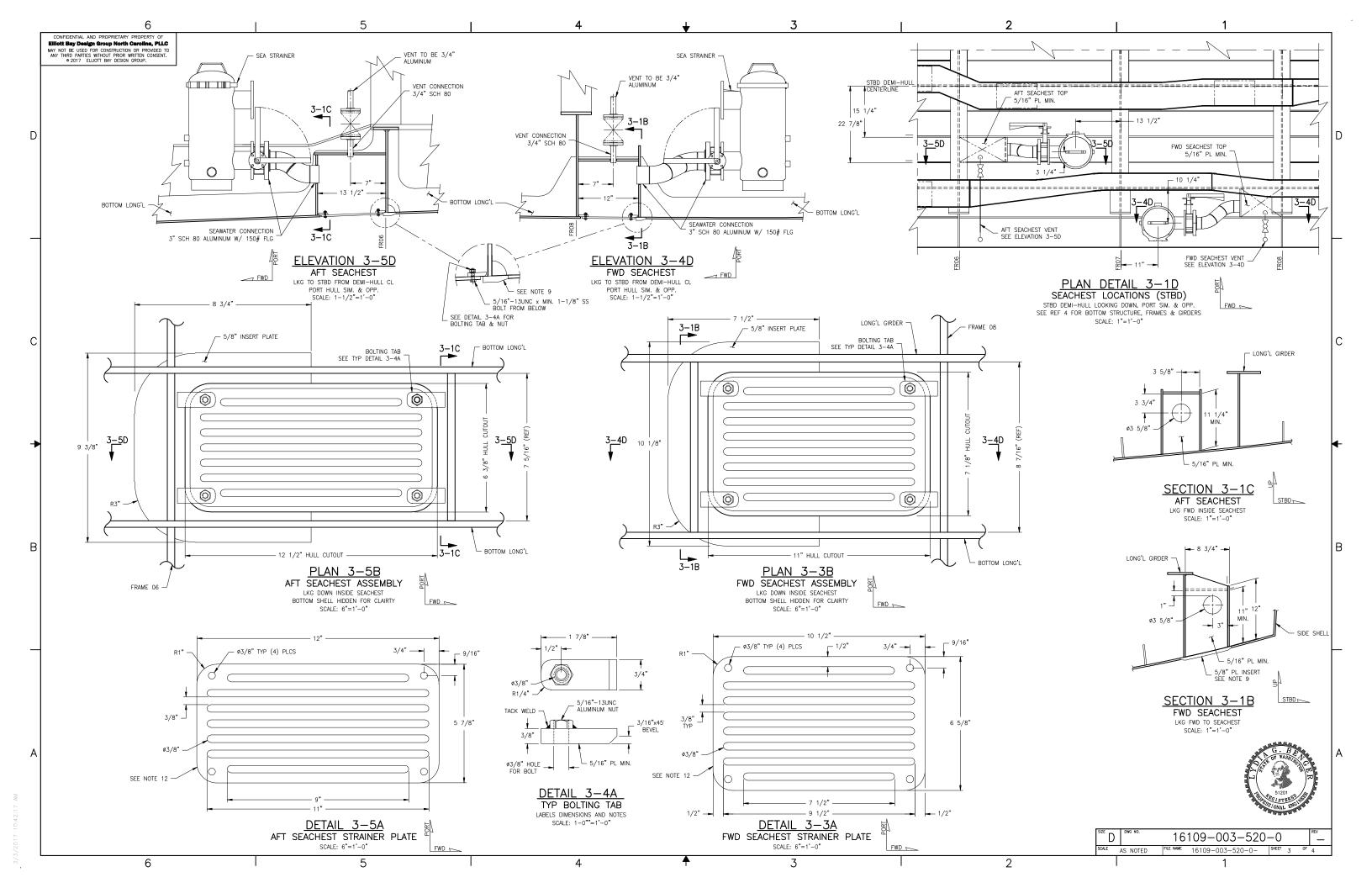


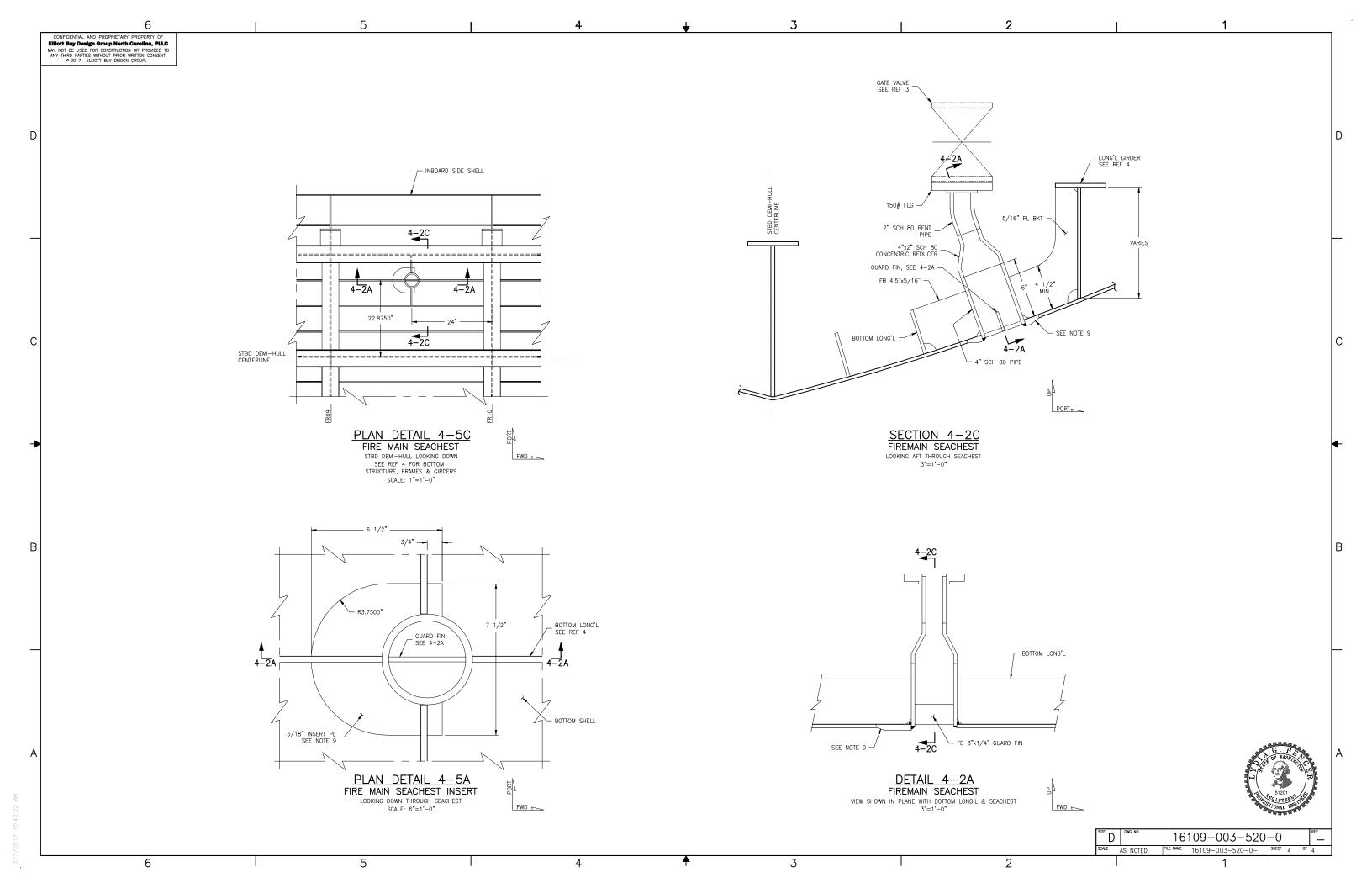


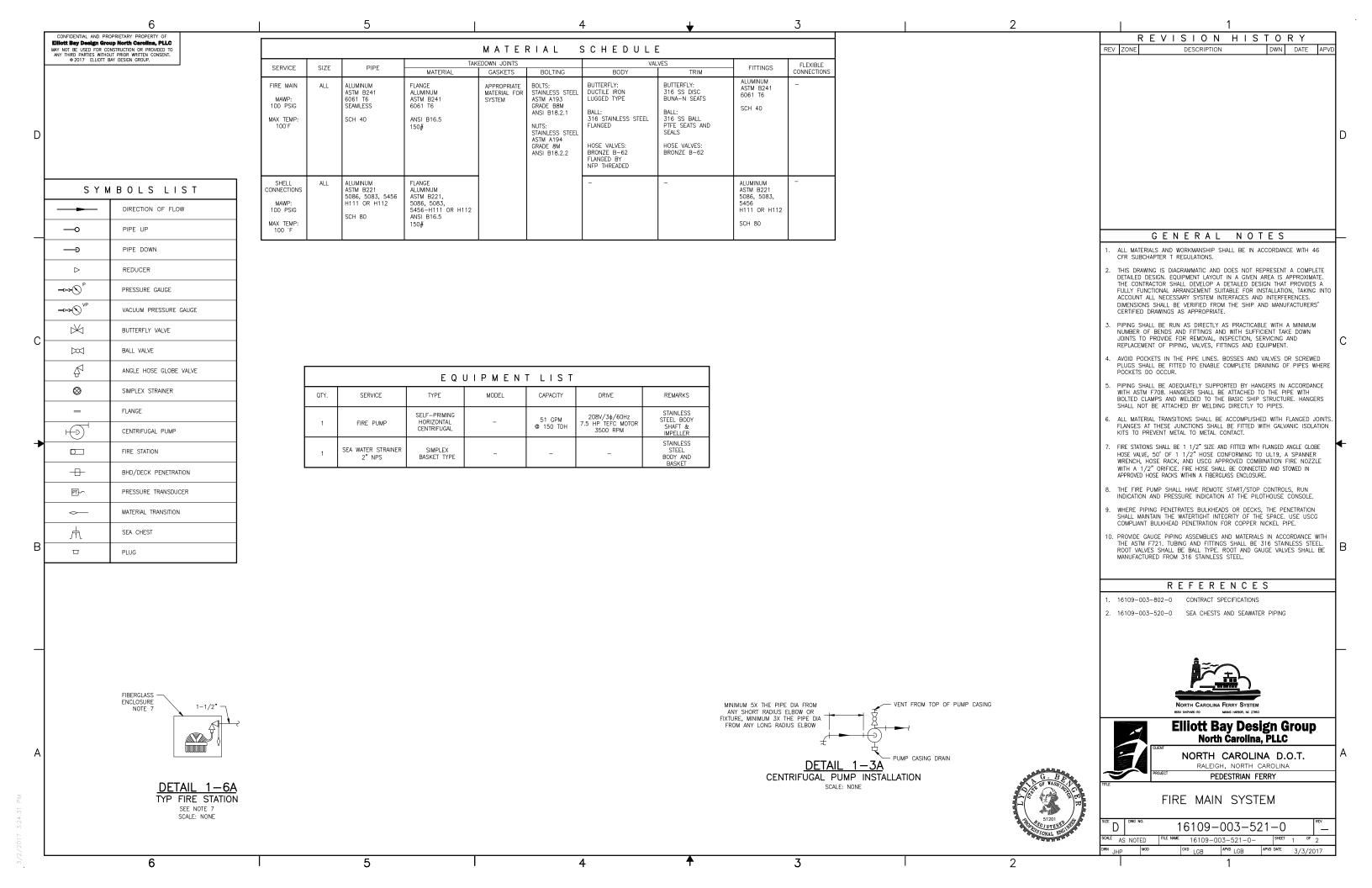


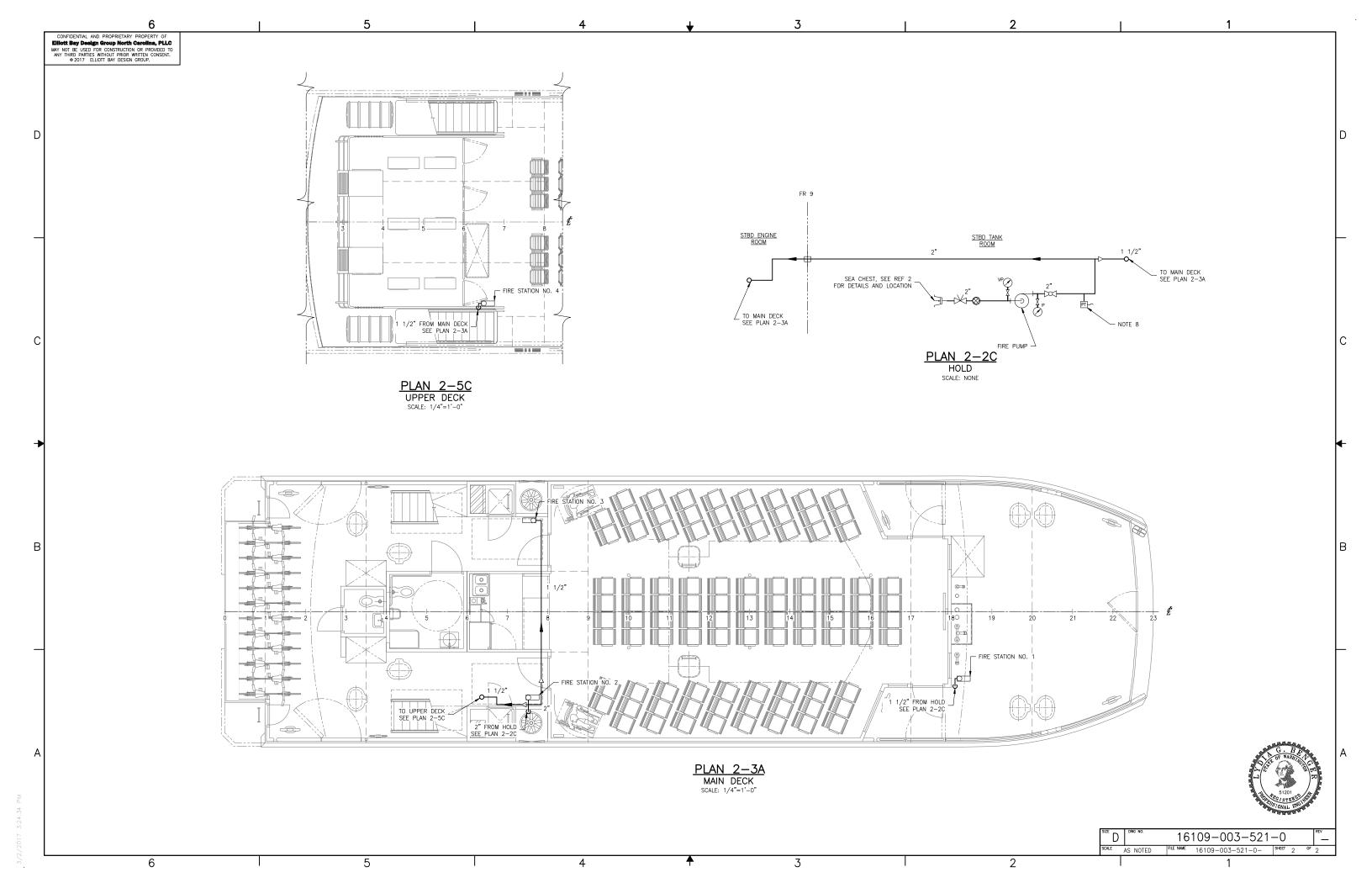
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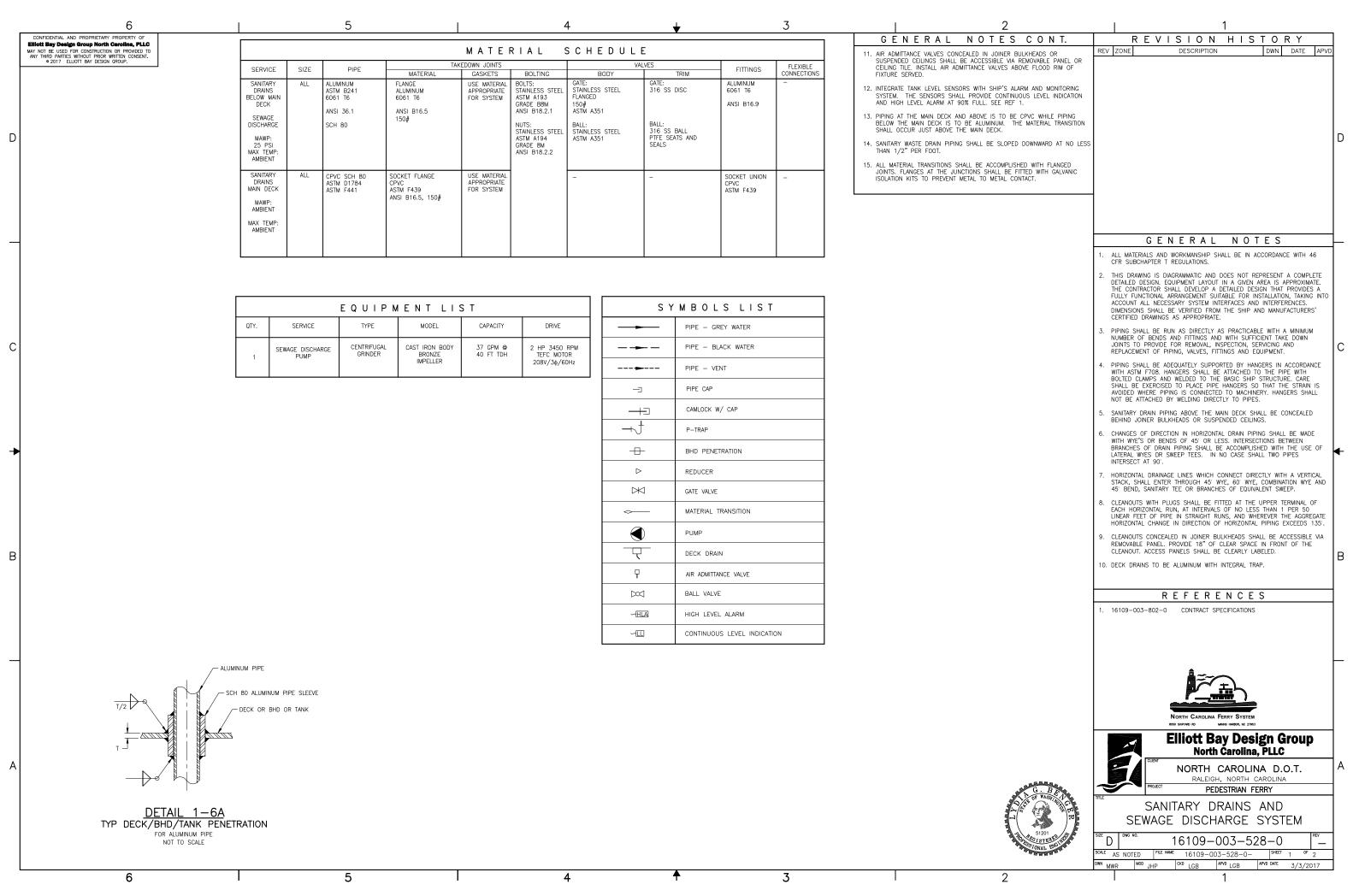




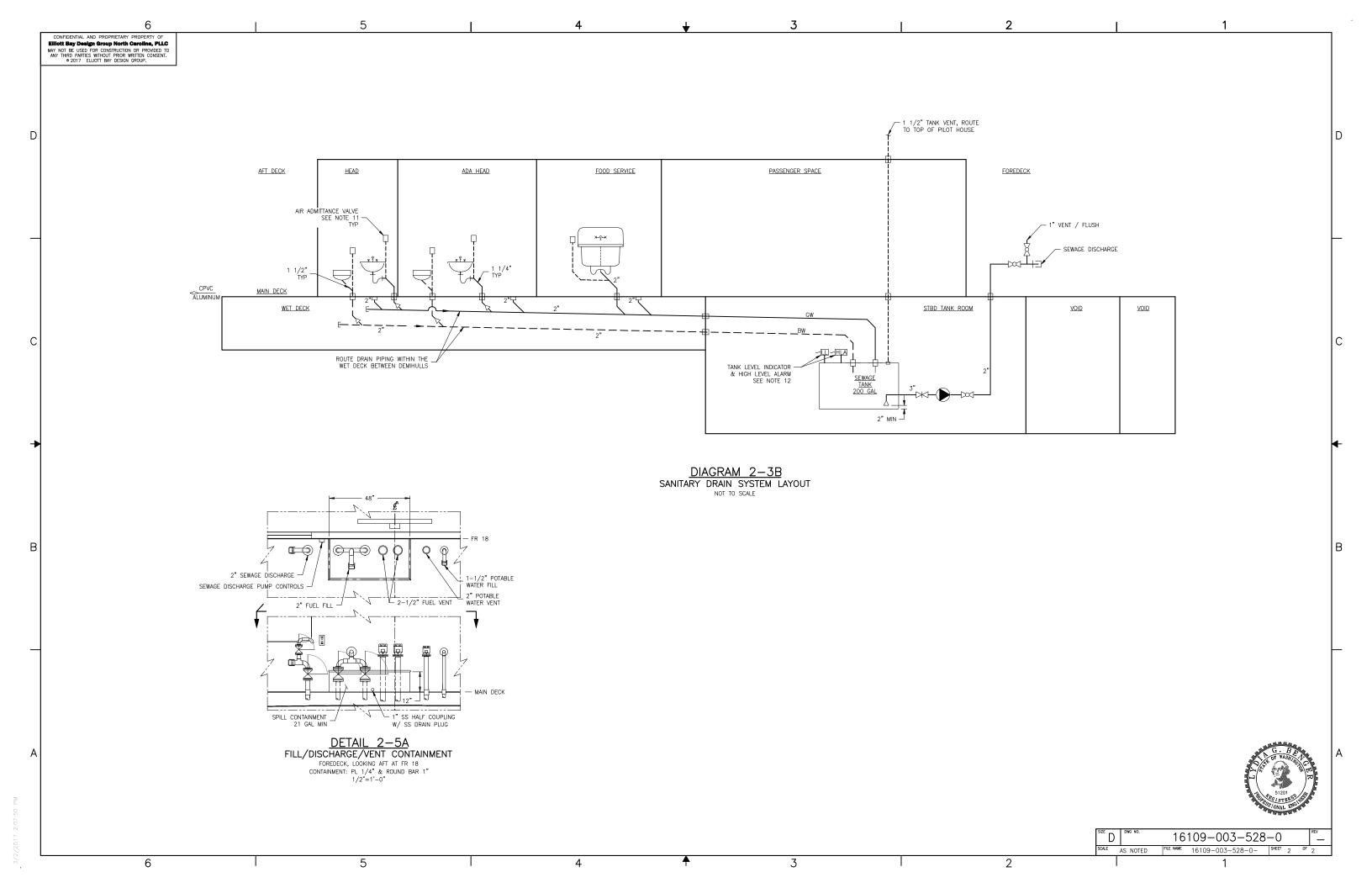


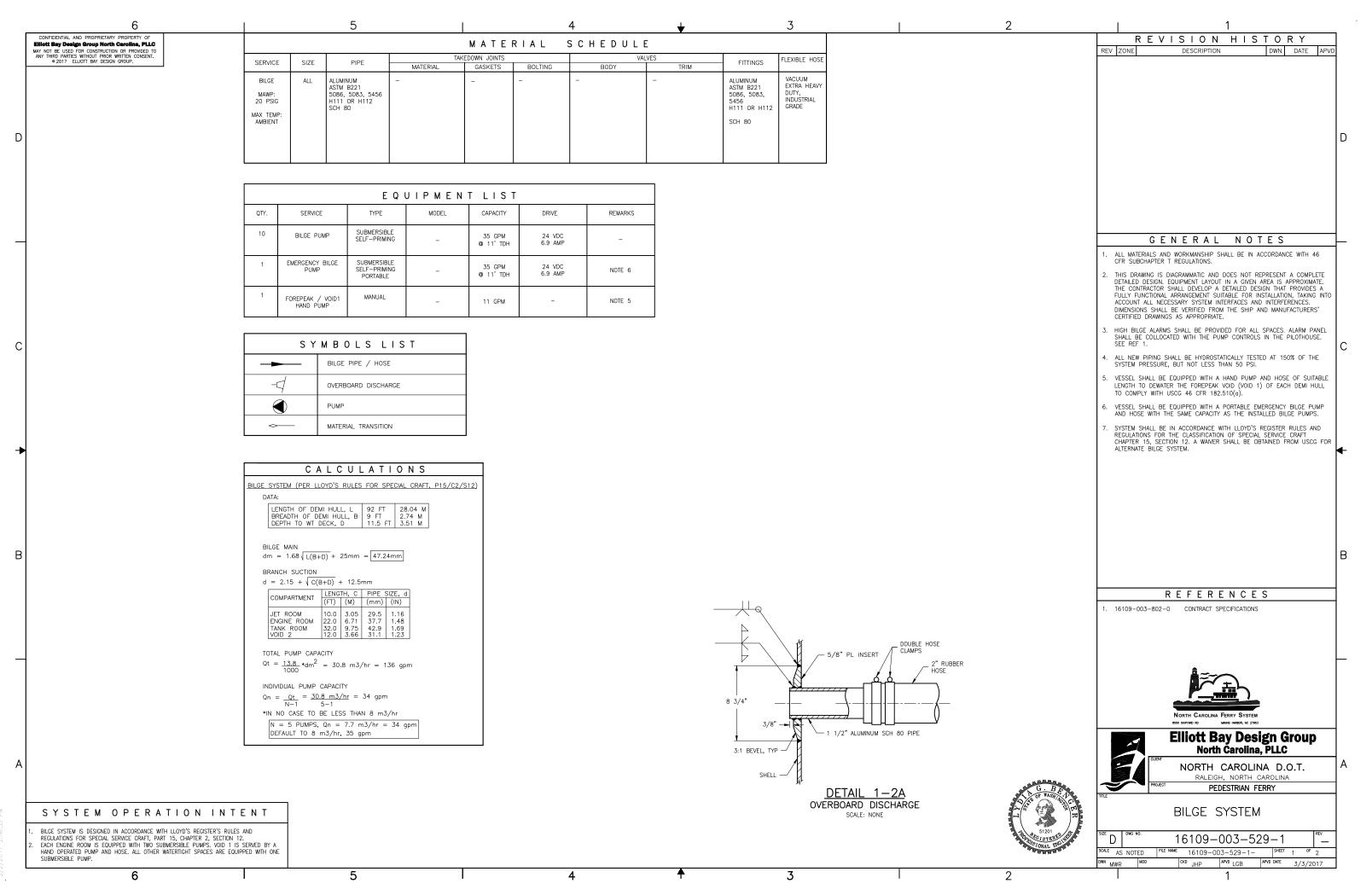


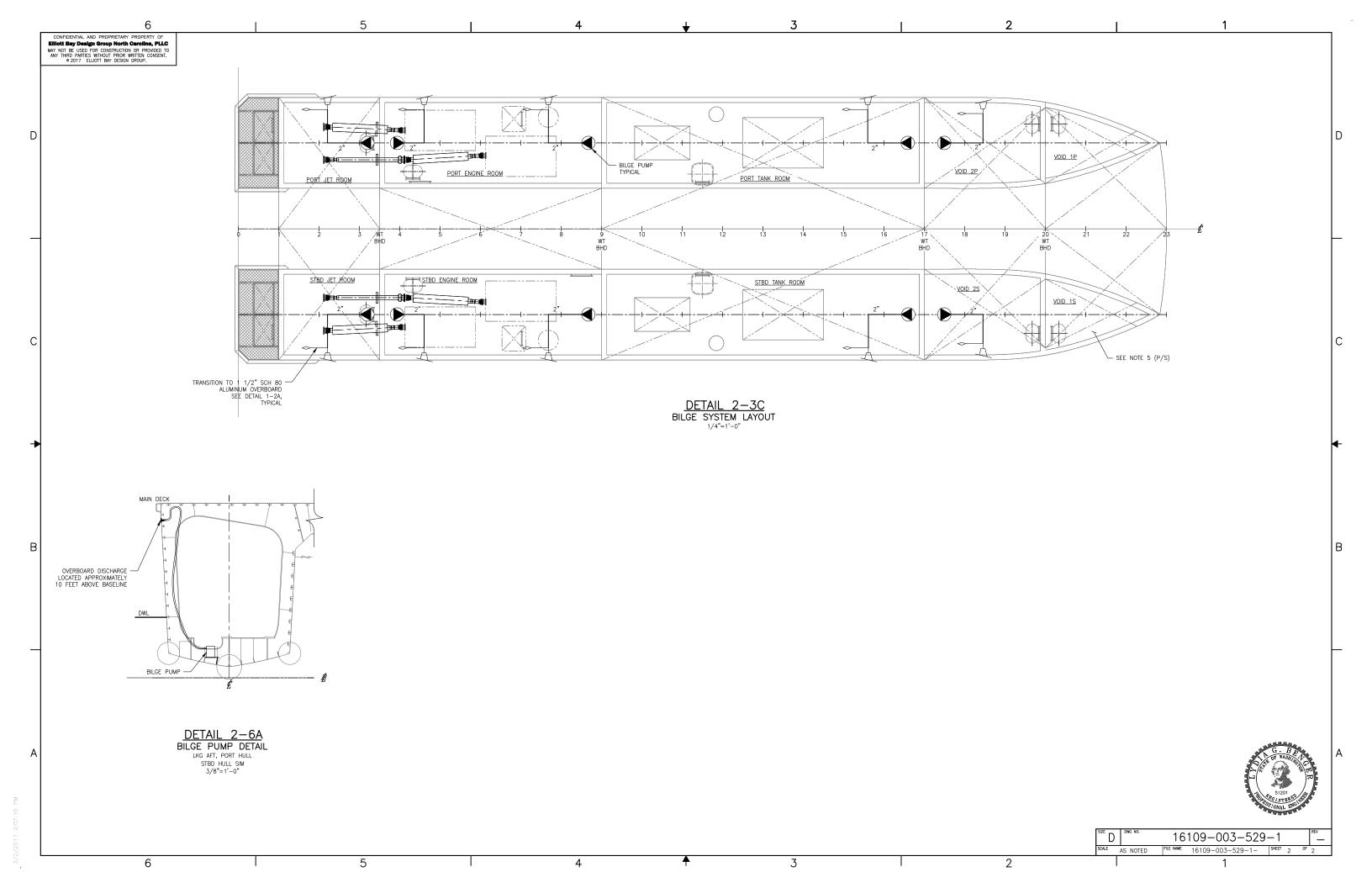


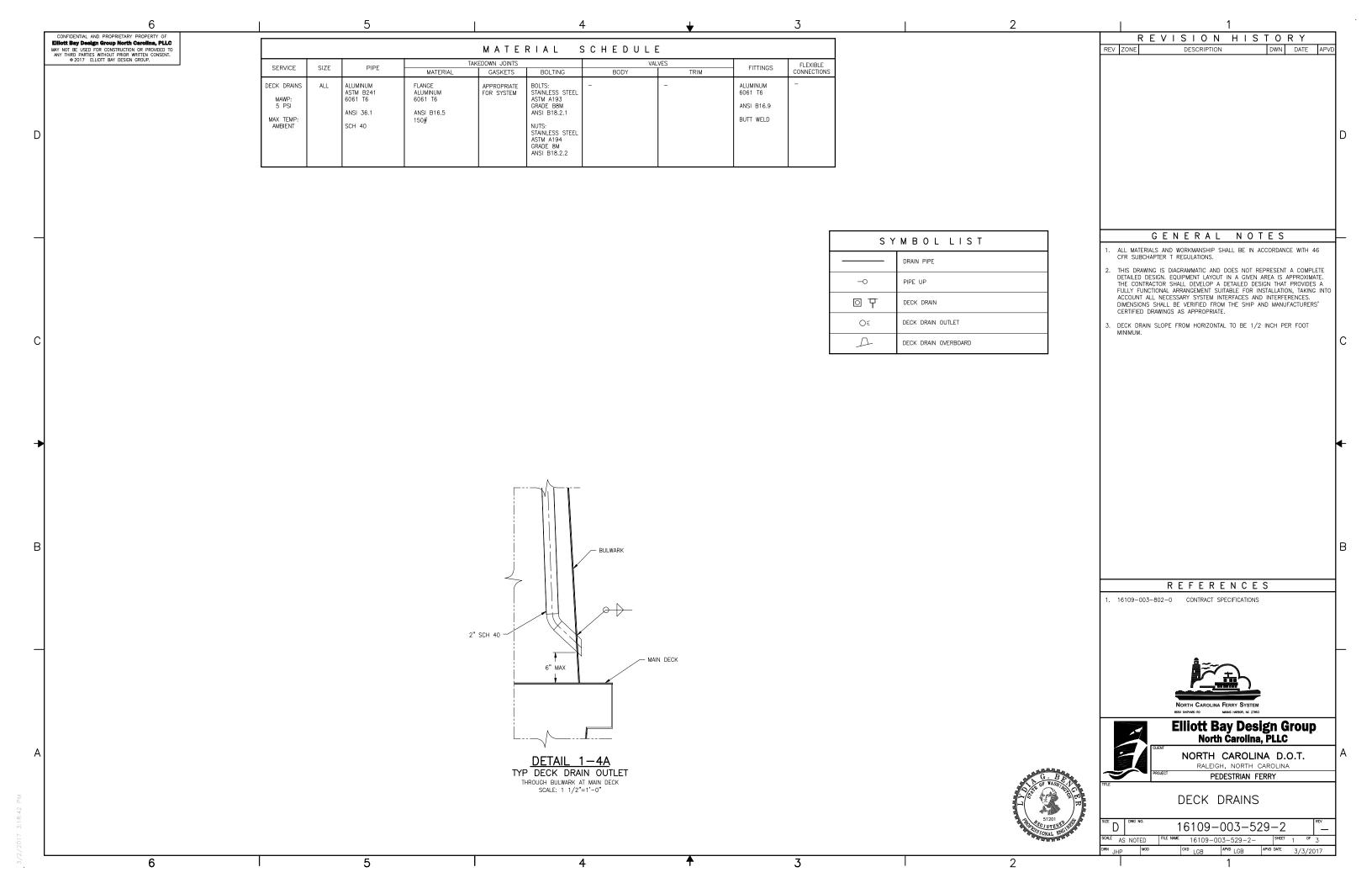


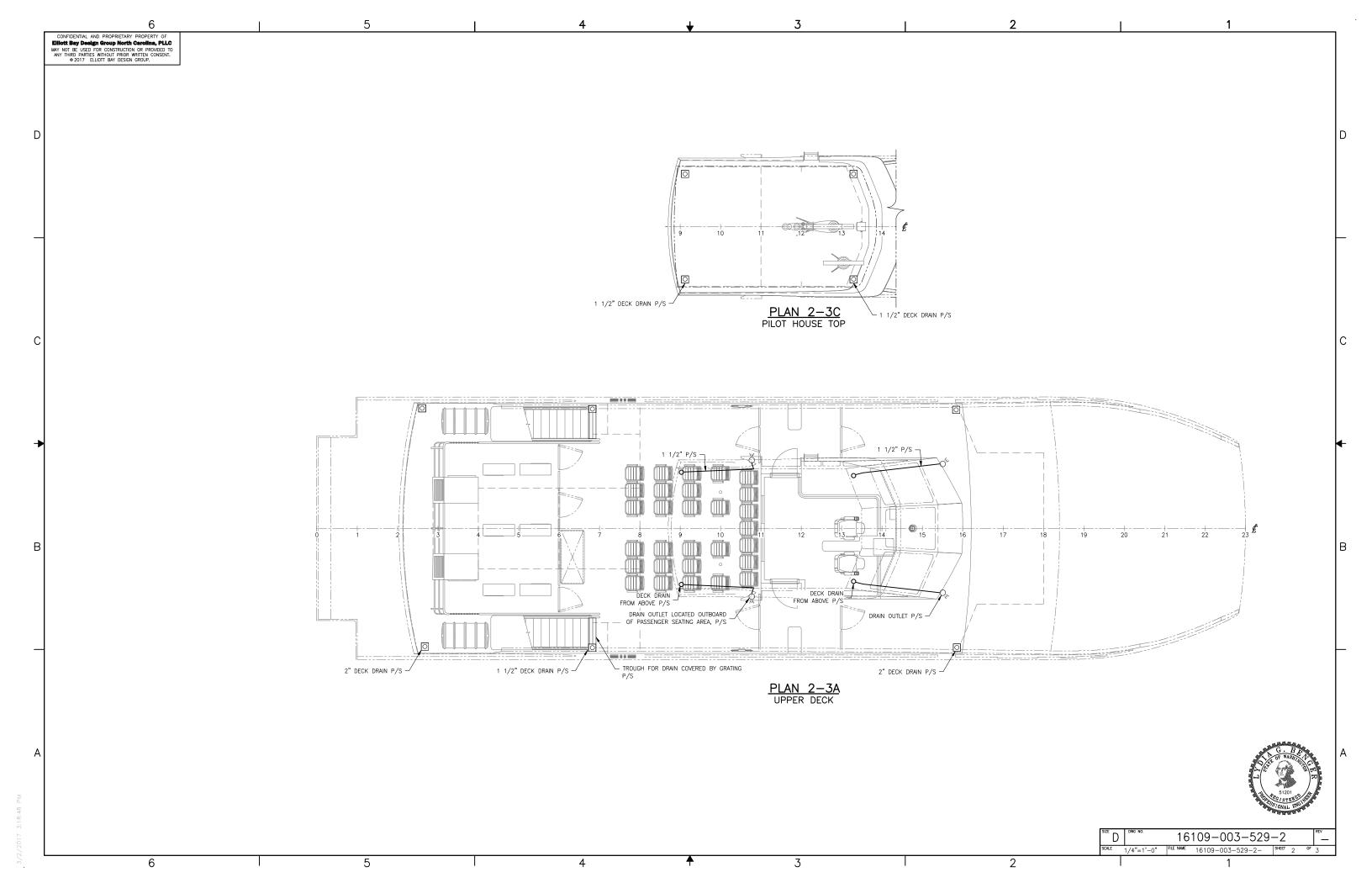
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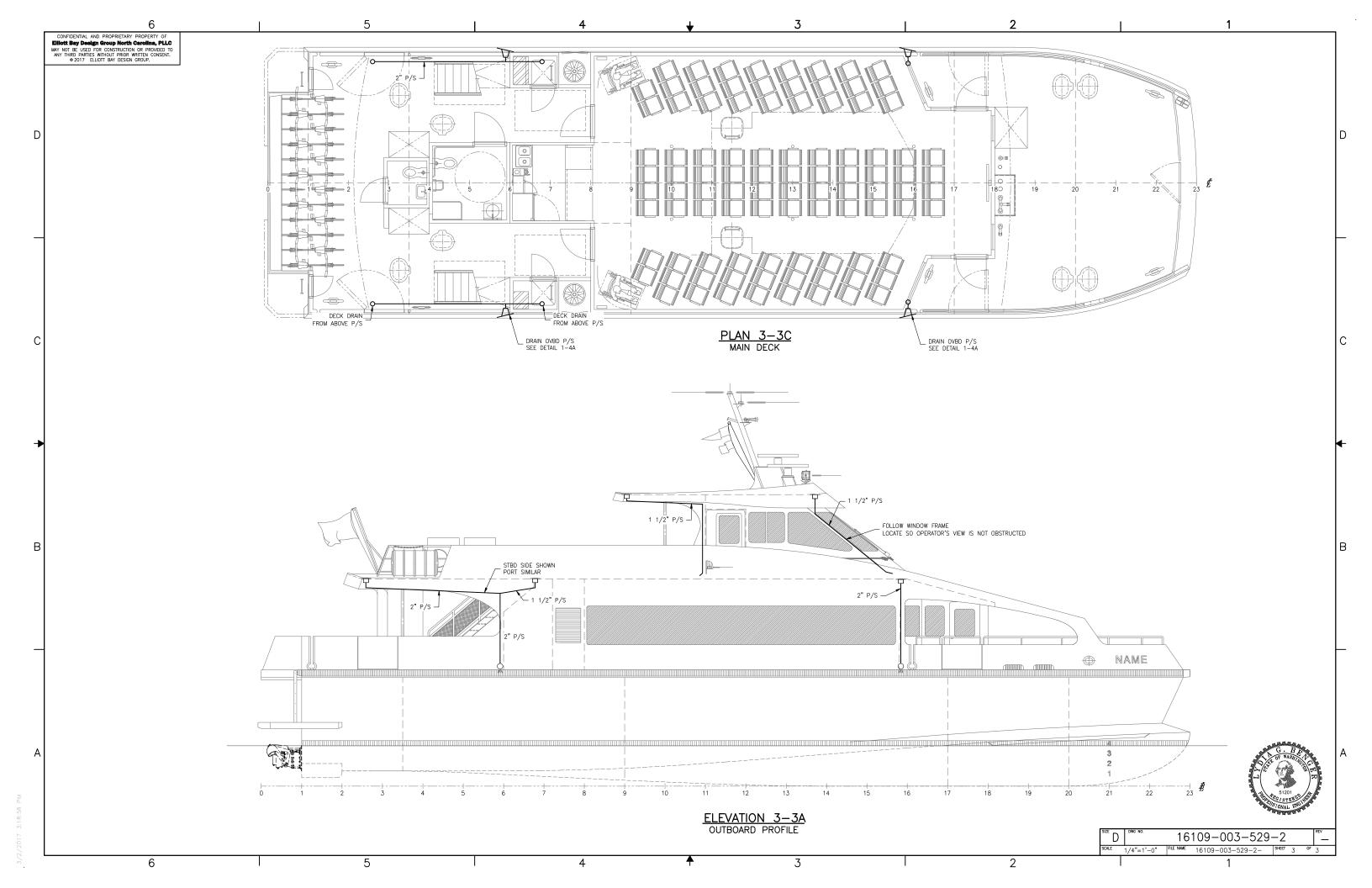






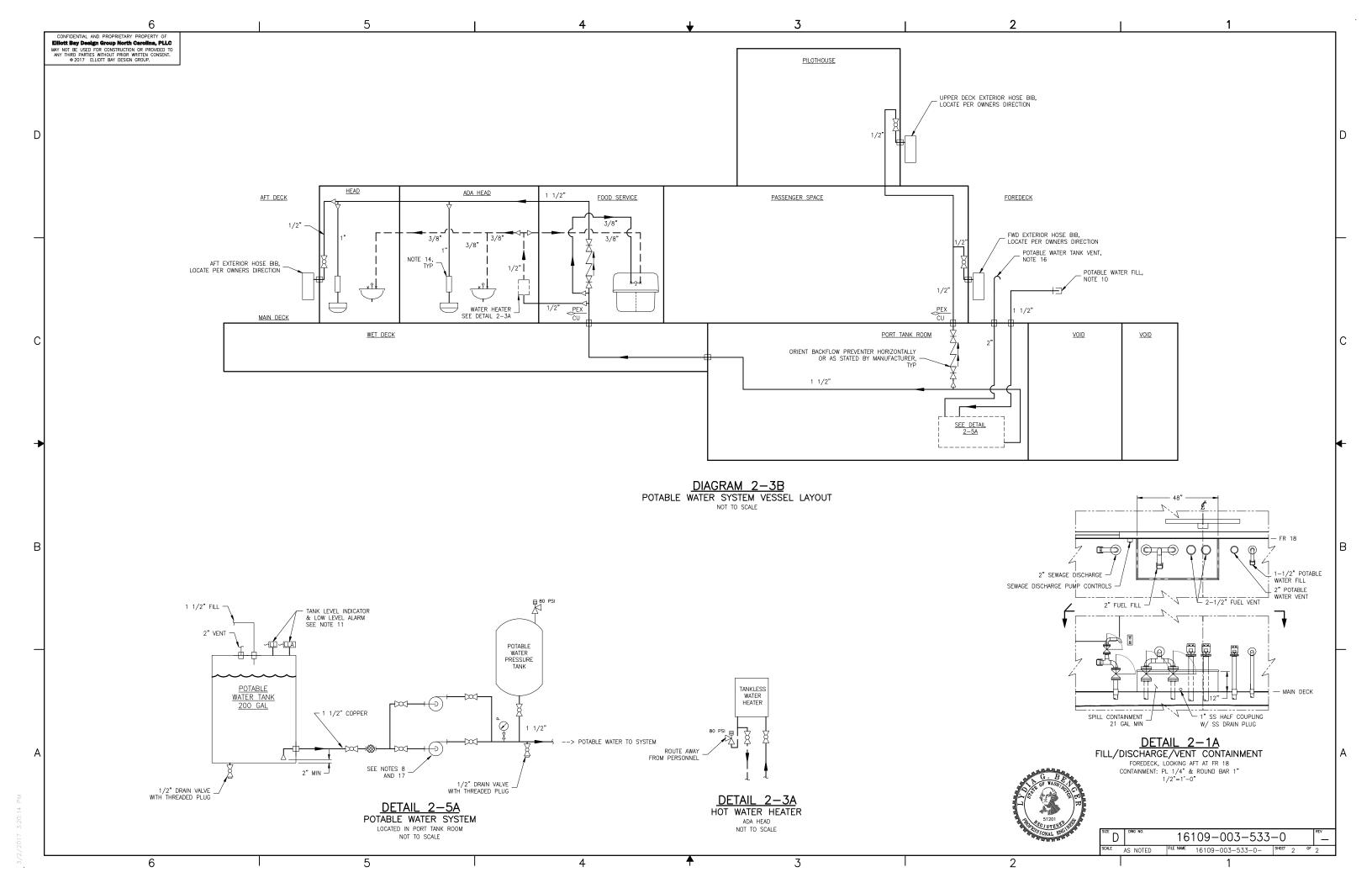


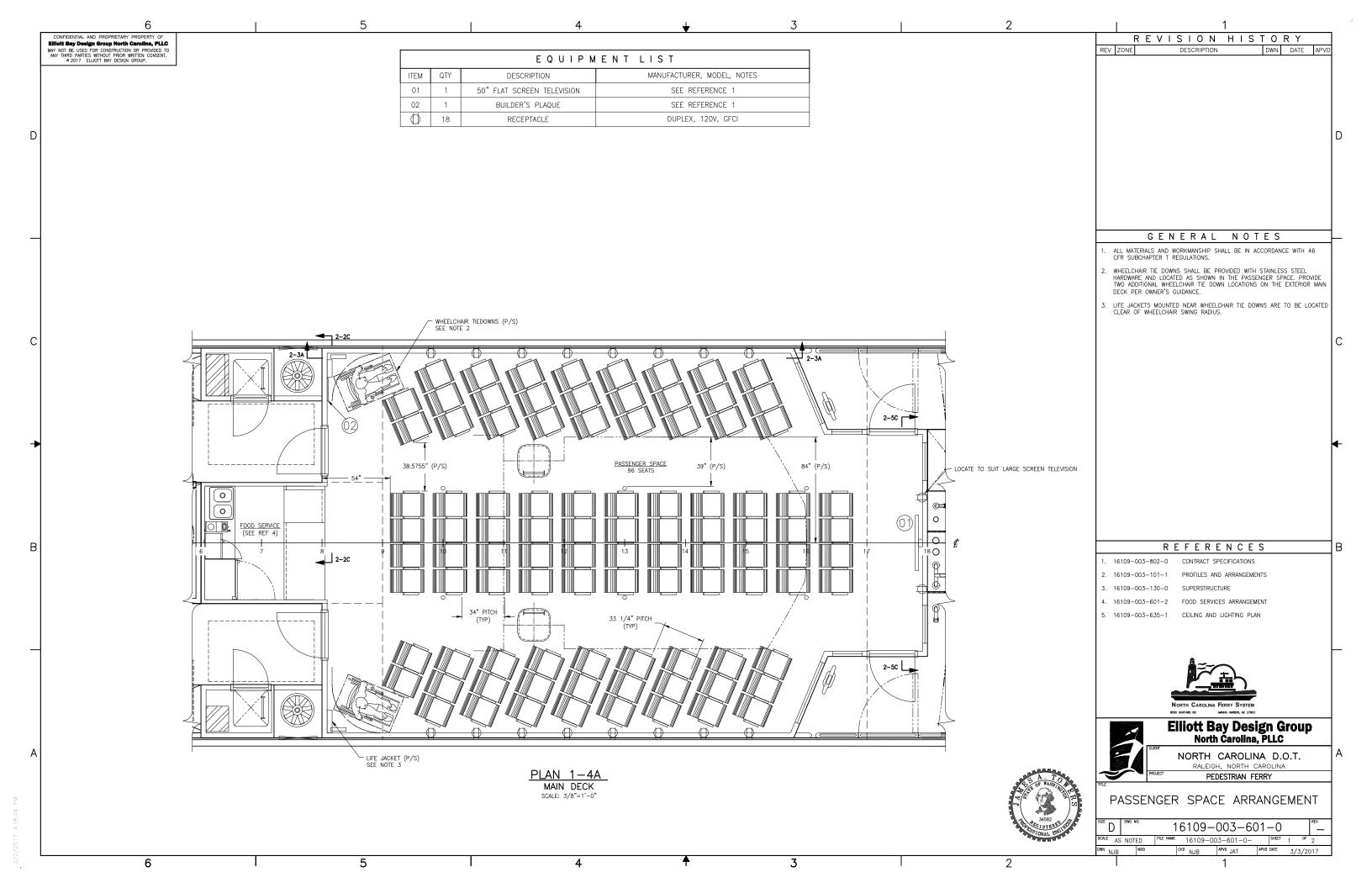


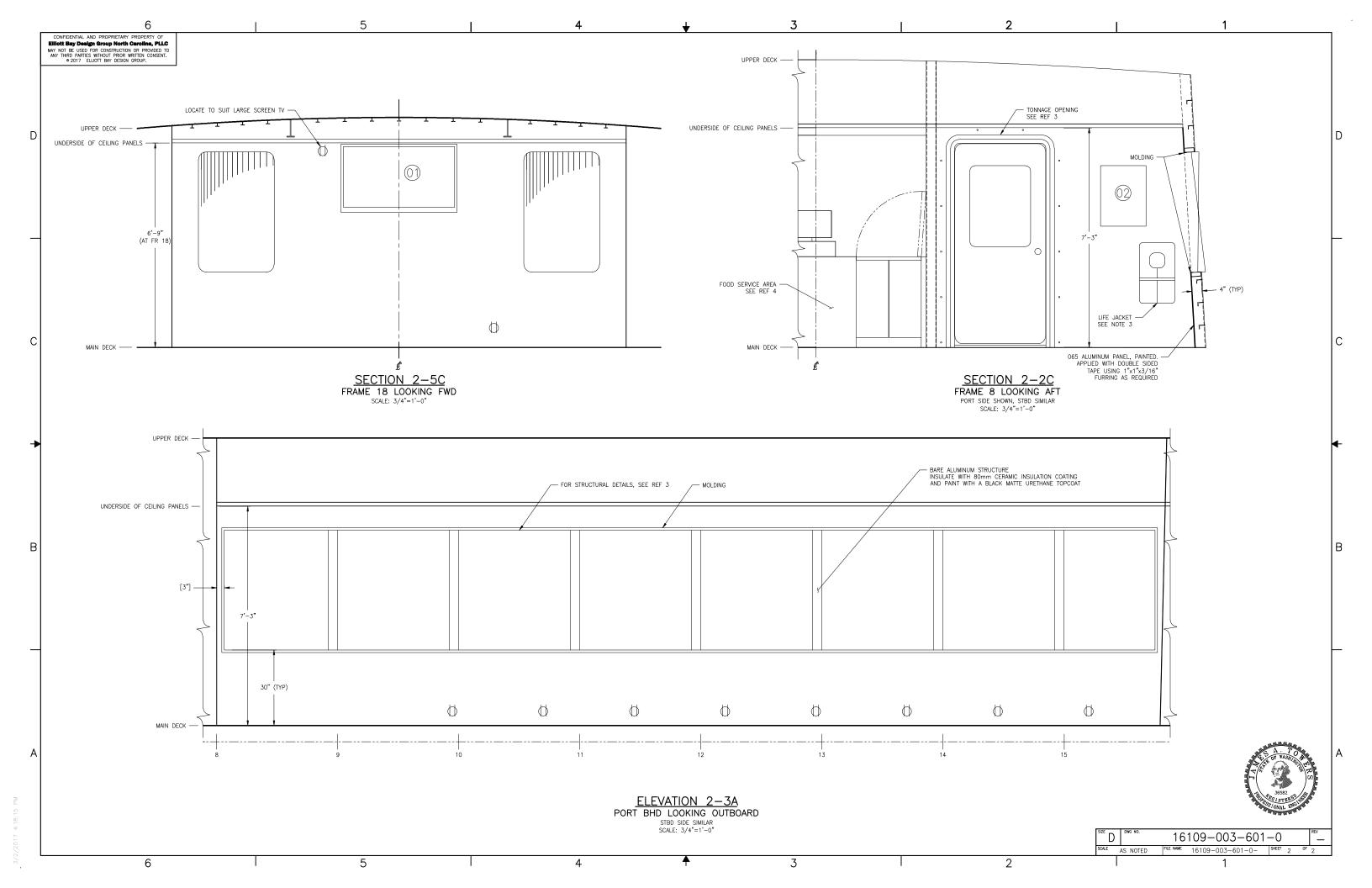


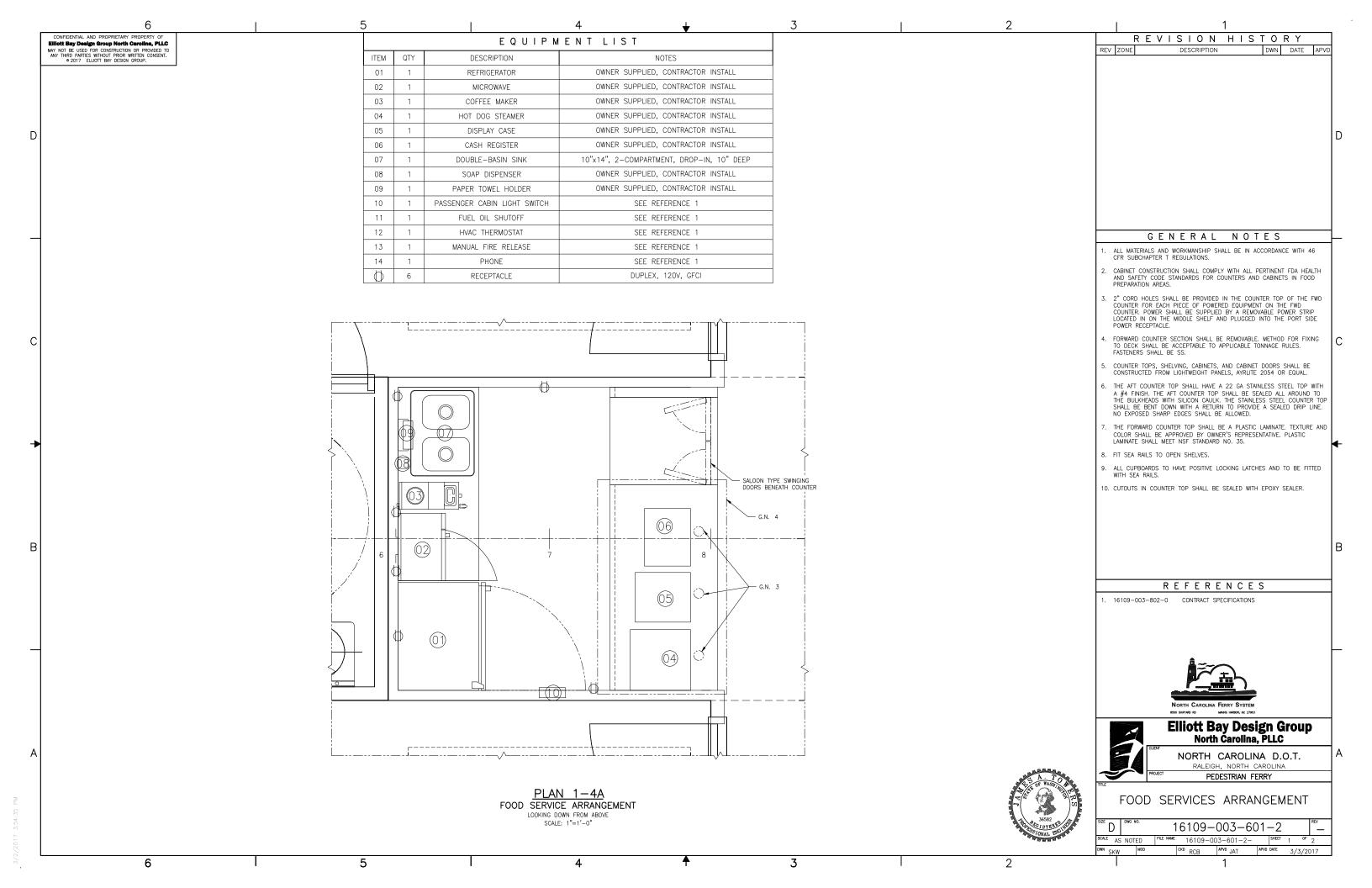
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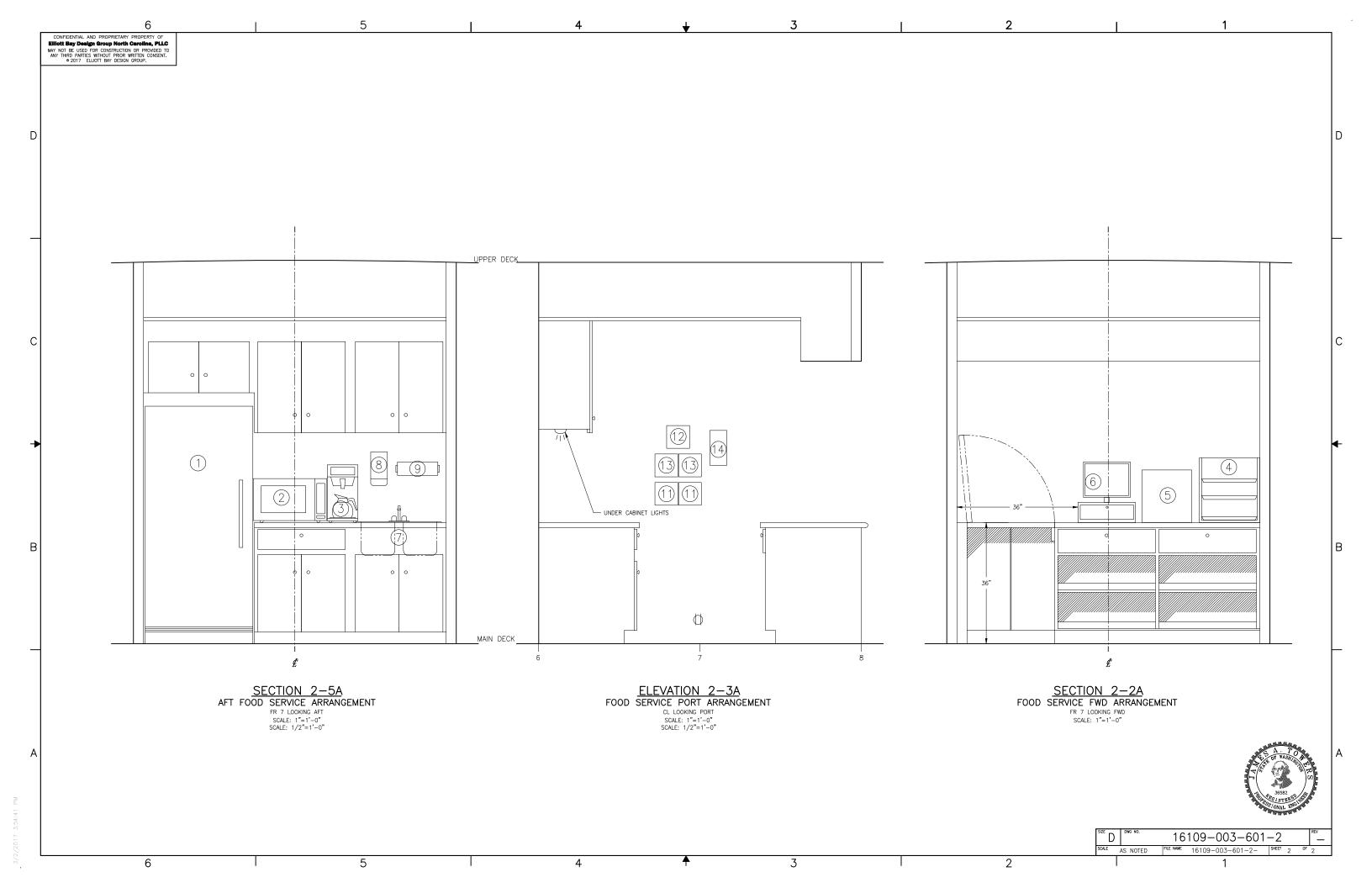
© 2017 ELLIOTT BAY DESIGN GROUP. SCHEDULE MATERIAL DESCRIPTION DWN DATE 12. THE POTABLE WATER PRESSURE TANK SHALL BE FITTED WITH AN 80 PSIG SAFETY RELIEF VALVE. THE HOT WATER HEATER SHALL BE FITTED WITH A TEMPERATURE/PRESSURE RELIEF VALVE. TAKEDOWN JOINTS REMARKS SERVICE SIZE PIPE FITTINGS MATERIAL GASKETS BOLTING BODY TRIM 13. USE USCG COMPLIANT BULKHEAD/DECK PENETRATIONS FOR COPPER AND OTABLE WATE CROSSLINKED POLYETHYLENE PTFE SEATS BRASS CRIMP STYLE FITTINGS MAIN DECK AND ABOVE NSF SAFE (PEX) 14. TOILETS SHALL BE SUPPLIED WITH SOLENOID FLUSHING VALVES. ASTM F877 AND ASTM F877 AND F1807 ASTM F876 AND F1807 15. EXTERIOR HOSE BIBS SHALL BE FITTED WITH A METHOD TO ISOLATE AND 85 PSIG MAX TEMP: DRAIN THE WATER FOR FREEZE PROTECTION. 125 E חו 16. VENT TERMINAL SHALL BE BALL CHECK TYPE WITH FLANGED ALUMINUM BODY AND FLANGE, 150#, ANSI B16.24, SOLDER JOINT, BRONZE, ASTM B61 CHROME PLATED BALL, PTFE SEATS WROT COPPER, ANSI B16.22, ASTM B75 OTABLE WATE BOLTS: STAINLESS STEEL CERTIFIED LEAD FREE SEAMLESS HARD DRAWN, ASTM B88, BELOW MAIN FOR SYSTEM BRONZE 150# 17. THE POTABLE WATER SYSTEM SHALL BE SUPPLIED WITH TWO PRESSURE PUMPS. THREADED OR SOLDER DECK ASTM A193 TYPE K OR L GRADE B8M NORMAL OPERATION IS ONE PUMP PRESSURIZING THE SYSTEM AND THE SECOND 85 PSIG MAX TEMP: 125 F STAINLESS STEEL ASTM A194 GRADE 8M ANSI R18 2 2 APPROPRIATE FOR SYSTEM POTABLE WATE GENERAL NOTES ALL ALUMINUM FLANGE ALUMINUM. STAINLESS STEEL ASTM A193 GRADE B8M ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH 46 ANSI B16.9 CFR SUBCHAPTER T REGULATIONS ANSI B16.5 ANSI 36.1 ANSI B18.2.1 BUTT WELD THIS DRAWING IS DIAGRAMMATIC AND DOES NOT REPRESENT A COMPLETE SCH 40 DETAILED DESIGN. EQUIPMENT LAYOUT IN A GIVEN AREA IS APPROXIMATE.
THE CONTRACTOR SHALL DEVELOP A DETAILED DESIGN THAT PROVIDES A
FULLY FUNCTIONAL ARRANGEMENT SUITABLE FOR INSTALLATION, TAKING INTO STAINLESS STEEL ASTM A194 MAX TFME 125 CRADE 8M ACCOUNT ALL NECESSARY SYSTEM INTERFACES AND INTERFERENCES. DIMENSIONS SHALL BE VERIFIED FROM THE SHIP AND MANUFACTURERS' CERTIFIED DRAWINGS AS APPROPRIATE. PIPING SHALL BE RUN AS DIRECTLY AS PRACTICABLE WITH A MINIMUM NUMBER OF BENDS AND FITTINGS AND WITH SUFFICIENT TAKE DOWN JOINTS TO PROVIDE FOR REMOVAL, INSPECTION, SERVICING AND EQUIPMENT LIST SYMBOLS LIST REPLACEMENT OF PIPING, VALVES, FITTINGS AND EQUIPMENT, AVOID POCKETS IN THE PIPE LINES. BOSSES AND VALVES OR SCREWED PLUGS SHALL BE FITTED TO ENABLE COMPLETE DRAINING OF PIPES WHERE QTY. DESCRIPTION TYPF DRIVE MODEL CAPACITY REMARKS PIPE - POTABLE WATER SUPPLY POCKETS DO OCCUR. SEE NOTES 8 & 1 PIPE - HOT WATER SUPPLY POTABLE WATER MULTI-STAGE 9 AMPS PIPING SHALL BE ADEQUATELY SUPPORTED BY HANGERS IN ACCORDANCE © 50 PSIG 115V/1P/60Hz WITH ASTM F708. HANGERS SHALL BE ATTACHED TO THE PIPE WITH BOLTED CLAMPS AND WELDED TO THE BASIC SHIP STRUCTURE. CARE SHALL BE EXPROISED TO PLACE PIPE HANGERS SO THAT THE STRAIN IS AVOIDED WHERE PIPING IS CONNECTED TO MACHINERY. HANGERS SHALL -BHD PENETRATION NOT BE ATTACHED BY WELDING DIRECTLY TO PIPES. POTABLE WATER ASME RATED \triangleright REDUCER 6. HOT & COLD WATER PIPING TO BE INSULATED ACCORDING TO REF 1. BALL VALVE \bowtie HOT WATER THERMOSTAT SETTINGS NOT TO EXCEED 110° F. THE POTABLE WATER PRESSURE PUMP SYSTEM SHALL BE SUPPLIED WITH 208V/1P/60Hz 4.1kW TANKLESS WATER ELECTRIC 2 GPM MAX WATER TEMP RELIEF VALVE INTEGRAL PRESSURE SWITCHES TO CONTROL THE PUMP OPERATION. THE PRESSURE SWITCHES SHALL BE SET TO START THE PUMP AT 40 PSI AND STOP IT AT 60 PSI. THE PUMP SUCTION ALSO SHALL HAVE AN INTEGRAL OUTPUT OF 110 MATERIAL TRANSITION CHECK VALVE. BRONZE BODY SIMPLEX AFTER INSTALLATION & TESTING THE SYSTEM SHALL BE CLEANED, SANITIZED & FLUSHED IN ACCORDANCE WITH USPHS REQUIREMENTS. SEE REF 1 STRAINER ı⊗ı SIMPLEX STRAINER BASKET TYPE 10. FILL CONNECTION TO BE MALE CAMLOCK WITH CAP. TO BE MOUNTED (€) CENTRIFUGAL PUMP HORIZONTALLY AND MINIMUM 24" ABOVE DECK. 11. INTEGRATE TANK LEVEL SENSORS WITH SHIP'S ALARM AND MONITORING -₩(\) LOCAL GAUGE, PRESSURE SYSTEM, CONFIGURE FOR CONTINUOUS INDICATION AND LOW LEVEL ALARM AT 25% OF TANK CAPACITY, SEE REF 1. BACKFLOW PREVENTER M \sqrt{M} CAMLOCK W/ CAP REFERENCES +1. 16109-003-802-0 CONTRACT SPECIFICATIONS ~LLA LOW LEVEL ALARM **√**[] CONTINUOUS LEVEL INDICATION ALUMINUM PIPE - EXTERIOR BHD LOCATE SHUT-OFF VALVE -IN AN ACCESSIBLE LOCATION FIBERGLASS ENCLOSURE SCH 80 ALUMINUM PIPE SLEEVE - HOSE RACK WITH 50 FT COVER PANEL - DECK OR BHD OR TANK FINISHED WALL NORTH CAROLINA FERRY SYSTEM Elliott Bay Design Group North Carolina, PLLC NORTH CAROLINA D.O.T. RALEIGH, NORTH CAROLINA DECK PEDESTRIAN FERRY DETAIL 1-6A POTABLE WATER SYSTEM DETAIL 1-4A TYP DECK/BHD/TANK PENETRATION TYPICAL EXTERIOR HOSE BIB FOR ALUMINUM PIPE NOT TO SCALE 16109-003-533-0 Ď NOT TO SCALE FILE NAME 16109-003-533-0-SCALE AS NOTED DWN MWR CKD LGB_ APVD LGB APVD DATE 3/3/2017 MOD JHP 6

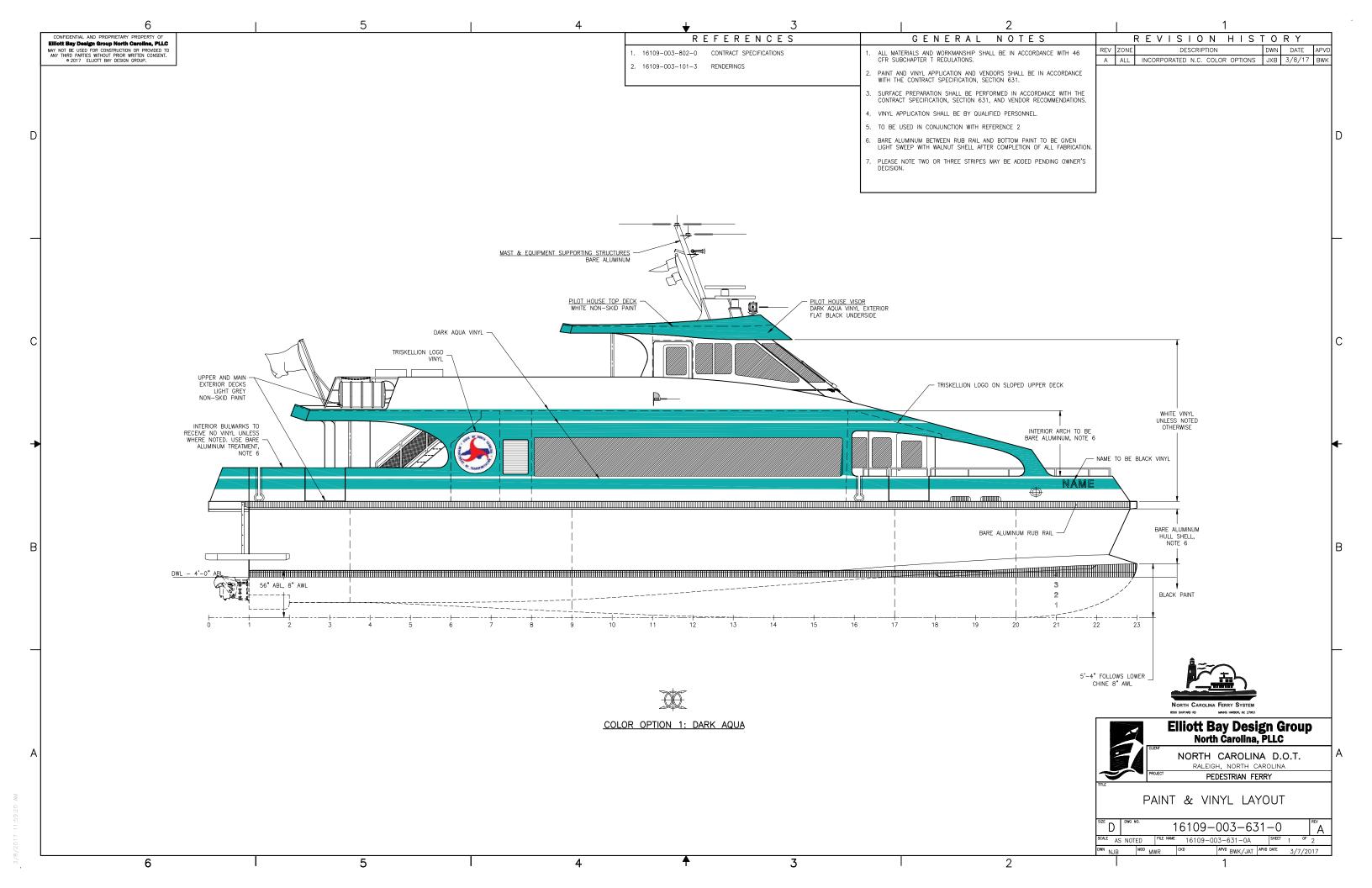


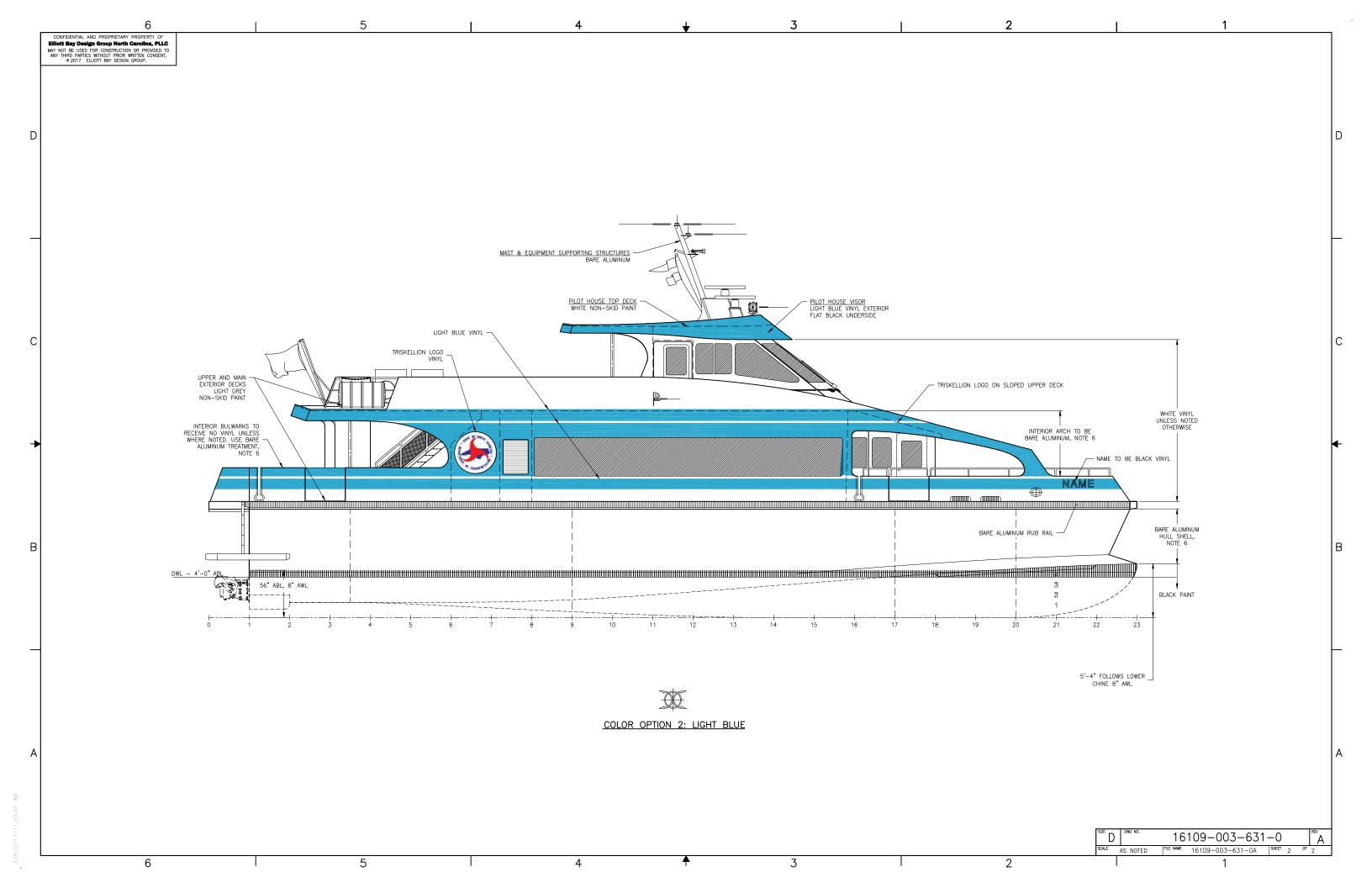


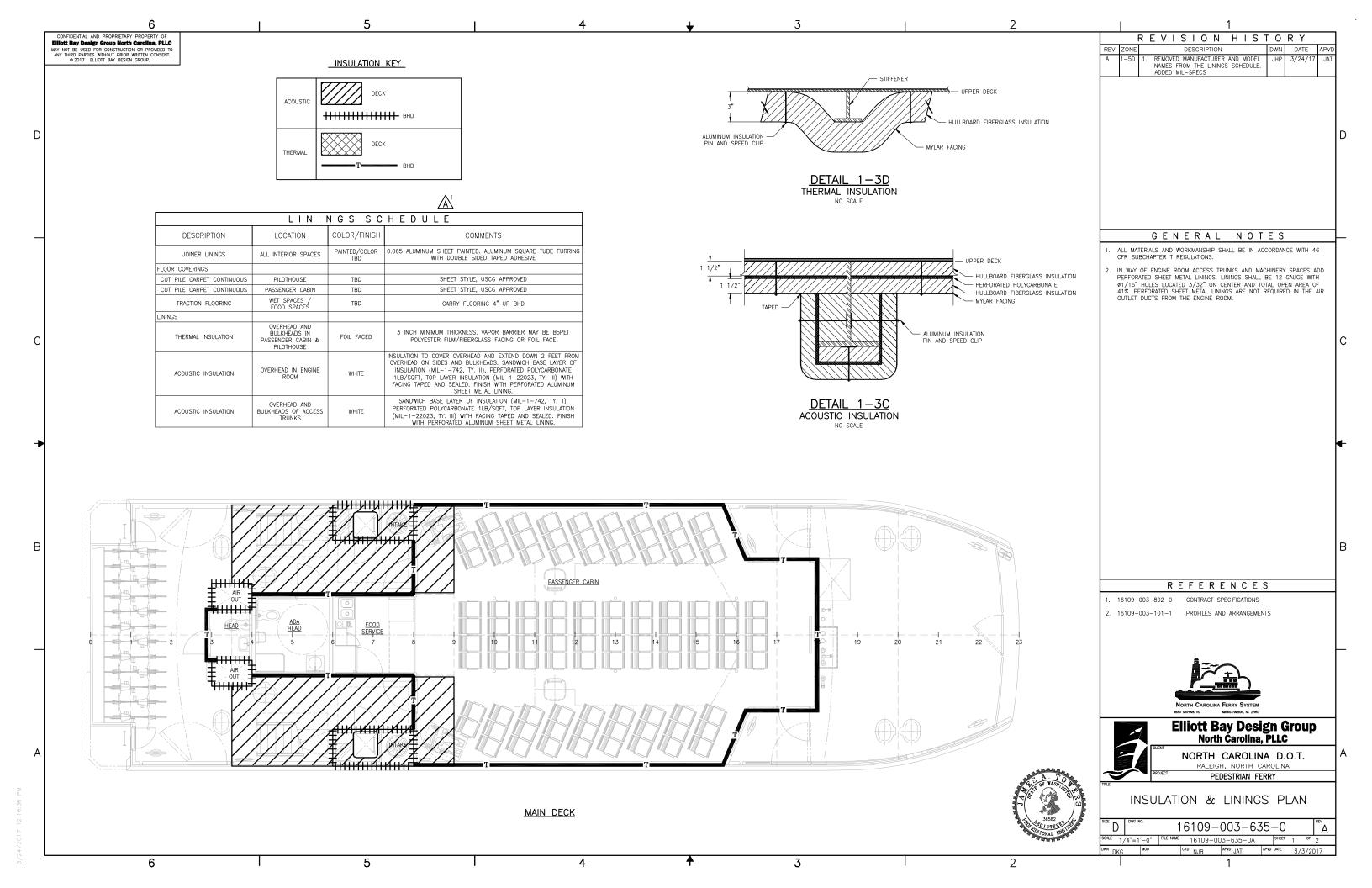


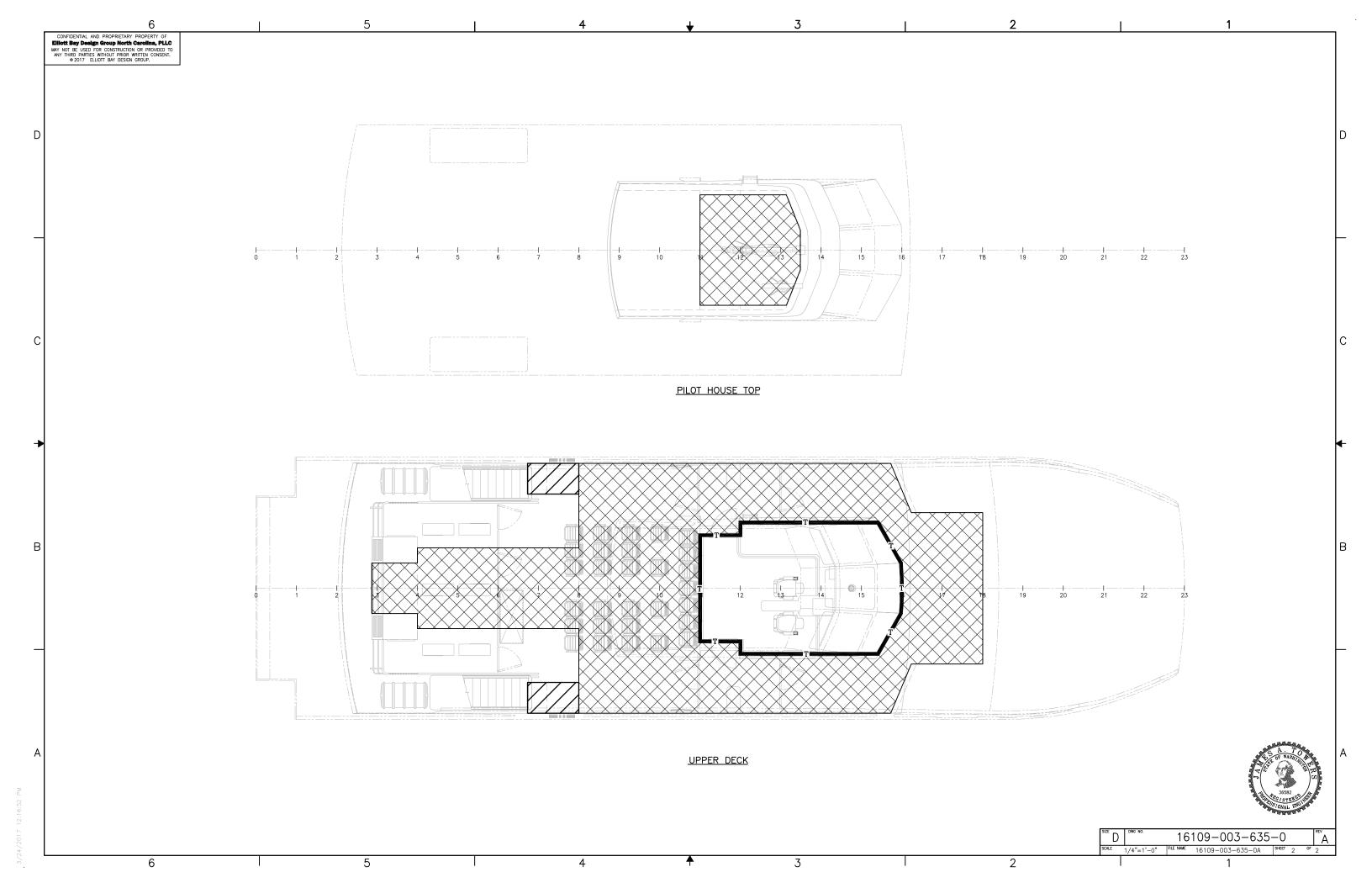


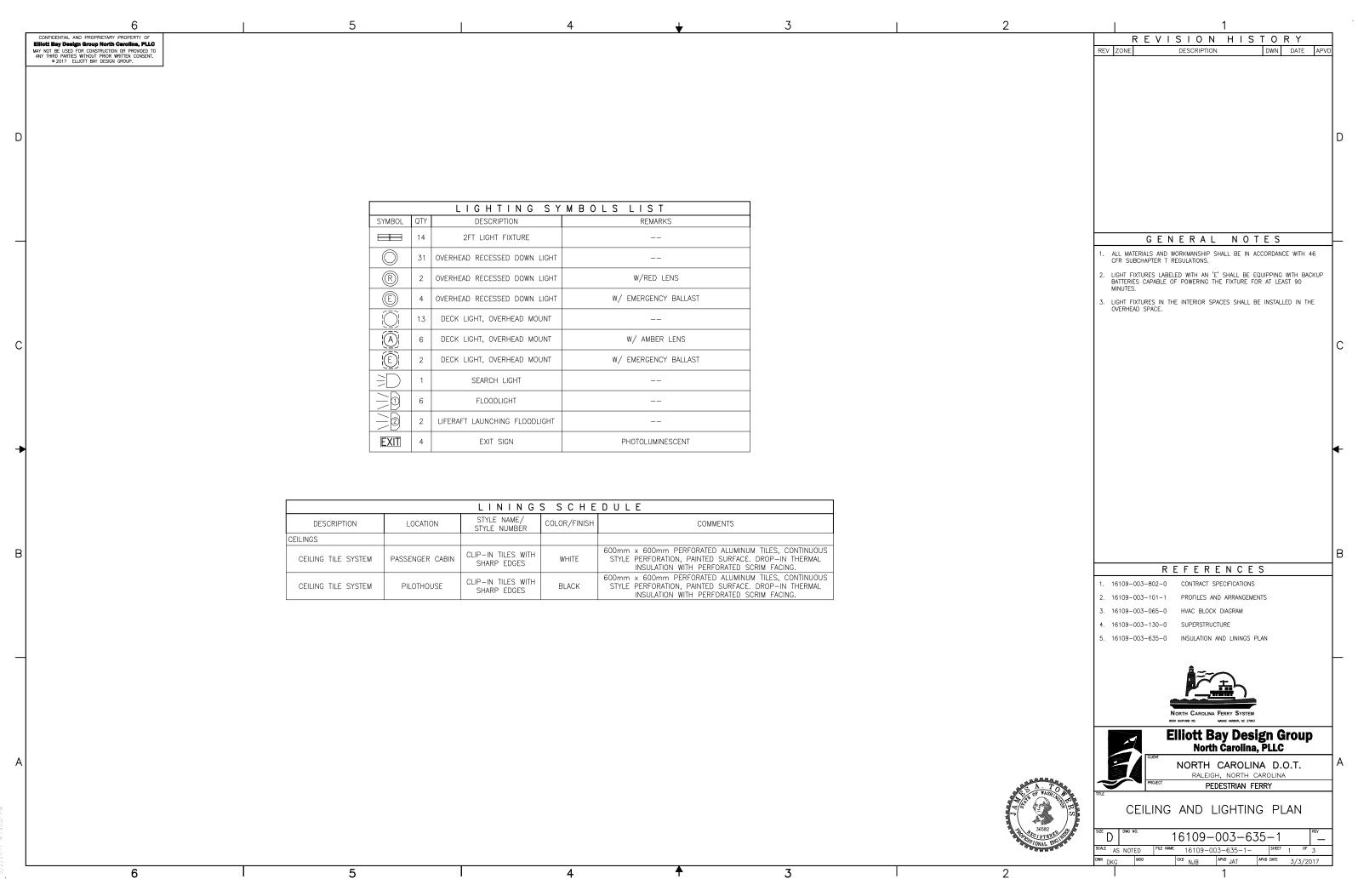












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